



XAVIER
UNIVERSITY

XAVIER UNIVERSITY LOGAN HALL RENOVATION

3800 VICTORY PARKWAY
CINCINNATI, OH 45207

BID PACKAGE NO. 3 BIDDING AND PERMIT 03/07/2017

PROJECT DATA:

PROJECT NAME: LOGAN HALL RENOVATION
ADDRESS: 3800 VICTORY PARKWAY
CINCINNATI, OH 45207
PROJECT DESCRIPTION: RENOVATION (PRIMARILY MECHANICAL) OF
EXISTING UNIVERSITY CLASSROOM BUILDING
NON-SPRINKLERED
BASEMENT FLOOR AREA = 8,996 SF
FIRST FLOOR AREA = 8,975 SF
SECOND FLOOR AREA = 8,203 SF
THIRD FLOOR AREA = 8,208 SF
TOTAL FLOOR AREA = 34,382 SF

BUILDING CODE DATA: OBC-2011

USE AND OCCUPANCY CLASSIFICATION

PROPOSED USE GROUP: B BUSINESS (EDUCATIONAL OCCUPANCY ABOVE GRADE 12)
NO CHANGE FROM CURRENT USE GROUP

GENERAL BUILDING HEIGHTS AND AREAS

HEIGHT LIMITATIONS	ALLOWABLE	PROPOSED (EXISTING)
TABLE 503	3 STORIES / 55 FT	3 STORIES / 50.2 FT
SPRINKLER INCREASE (OBC 504.2)	N/A	N/A
TOTAL HEIGHT	3 STORIES / 55 FT	3 STORIES / 50.2 FT
AREA LIMITATIONS	ALLOWABLE	PROPOSED (EXISTING)
TABLE 503	23,000 SF / STORY	8,996 SF MAX / STORY
FRONTAGE INCREASE (OBC 506)	NOT APPLIED	NOT APPLIED
SPRINKLER INCREASE (OBC 506)	N/A	N/A
TOTAL AREA	23,000 SF / STORY	8,996 SF MAX / STORY

SEPARATION FOR INCIDENTAL USE AREAS - TABLE 508.2
THERE ARE NO INCIDENTAL ACCESSORY OCCUPANCIES REQUIRING SEPARATION
NOTES: PROPOSED (EXISTING) HEIGHTS ARE HEIGHTS ABOVE AVERAGE GRADE PLANE.
BASEMENT DOES NOT CONSTITUTE A STORY ABOVE GRADE PLANE PER SECTION 202

TYPES OF CONSTRUCTION

CONSTRUCTION TYPE

FIRE RESISTANCE OF STRUCTURAL ELEMENTS (OBC TABLE 601)

STRUCTURAL ELEMENT	REQUIRED RATING
STRUCTURAL FRAME	0-HR
BEARING WALLS - EXTERIOR	0-HR (FLOORS 1-3), 1-HR (BASEMENT) PER TBL. 602
BEARING WALLS - INTERIOR	0-HR (FLOORS 1-3), 1-HR (BASEMENT) PER TBL. 602
NONBEARING WALLS - EXTERIOR	0-HR (FLOORS 1-3), 1-HR (BASEMENT) PER TBL. 602
NONBEARING WALLS - INTERIOR	0-HR
FLOOR CONSTRUCTION	0-HR
ROOF CONSTRUCTION	0-HR

FIRE AND SMOKE PROTECTION FEATURES

MAX. AREA OF EXTERIOR WALL OPENINGS (TABLE 705.8)

NO LIMIT

INTERIOR FINISHES

WALL & CEILING FINISH REQUIREMENTS (TABLE 803.5) - NONSPRINKLERED

USE GROUP	EXIT ENCLOSURES & EXIT PASSAGEWAYS	CORRIDORS	ROOMS & ENCLOSED SPACES
B	A	B	C

FLOOR FINISH REQUIREMENTS

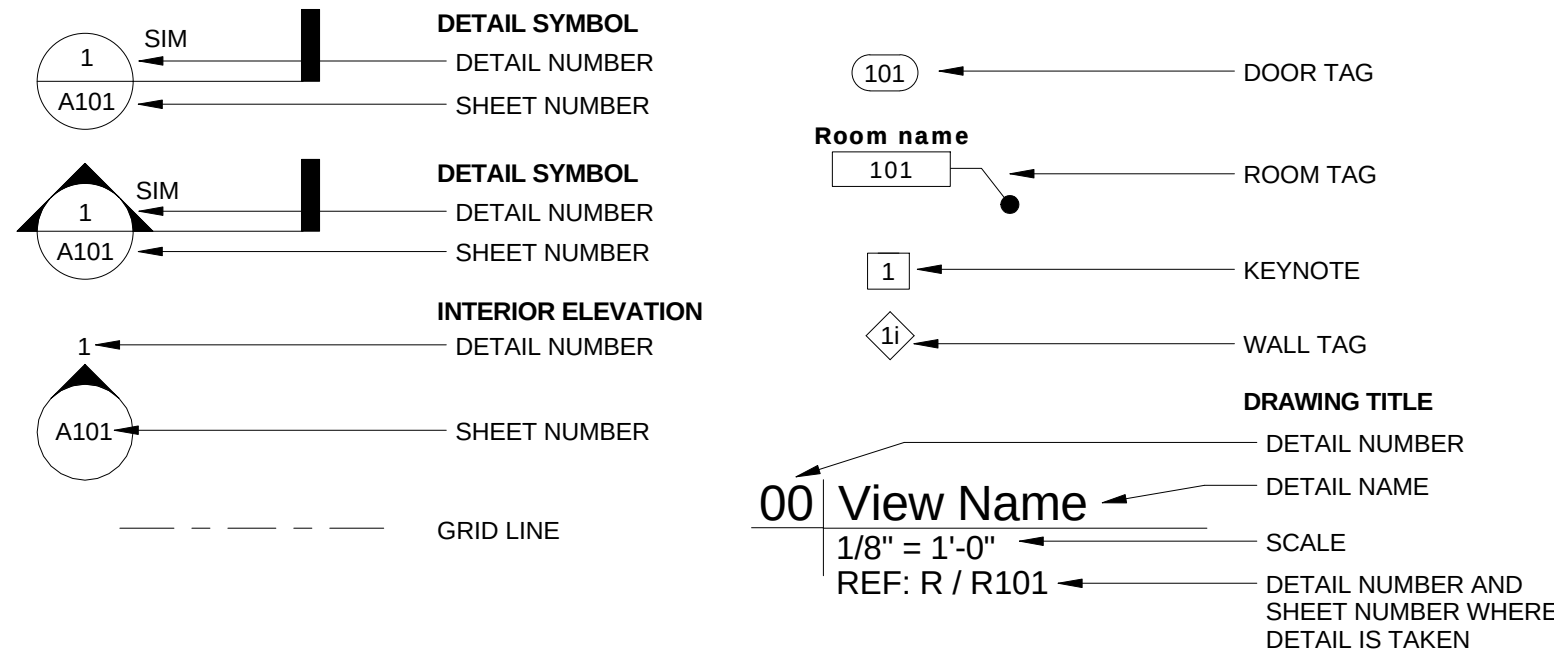
ALL AREAS: DOC FF-1 PILL TEST.
EXIT ENCLOSURES, EXIT PASSAGEWAYS & CORRIDORS: CLASS II

FIRE PROTECTION SYSTEMS

STANDPIPE SYSTEMS	PER OBC 905
PORTABLE FIRE EXTINGUISHERS	PER OBC 906
FIRE ALARM	PER OBC 907

SYMBOLS LEGEND

- THESE TYPICAL GRAPHIC SYMBOLS DESCRIBE PART OF THE WORK AS INDICATED OR THEY REFERENCE ADDITIONAL INFORMATION FOUND ON OTHER DRAWINGS.
- ADDITIONAL SYMBOLS ARE DEFINED ON OTHER SHEETS.
- GRAPHIC SYMBOLS INDICATE ITEM LOCATIONS AND ARE NOT DRAWN TO SCALE.



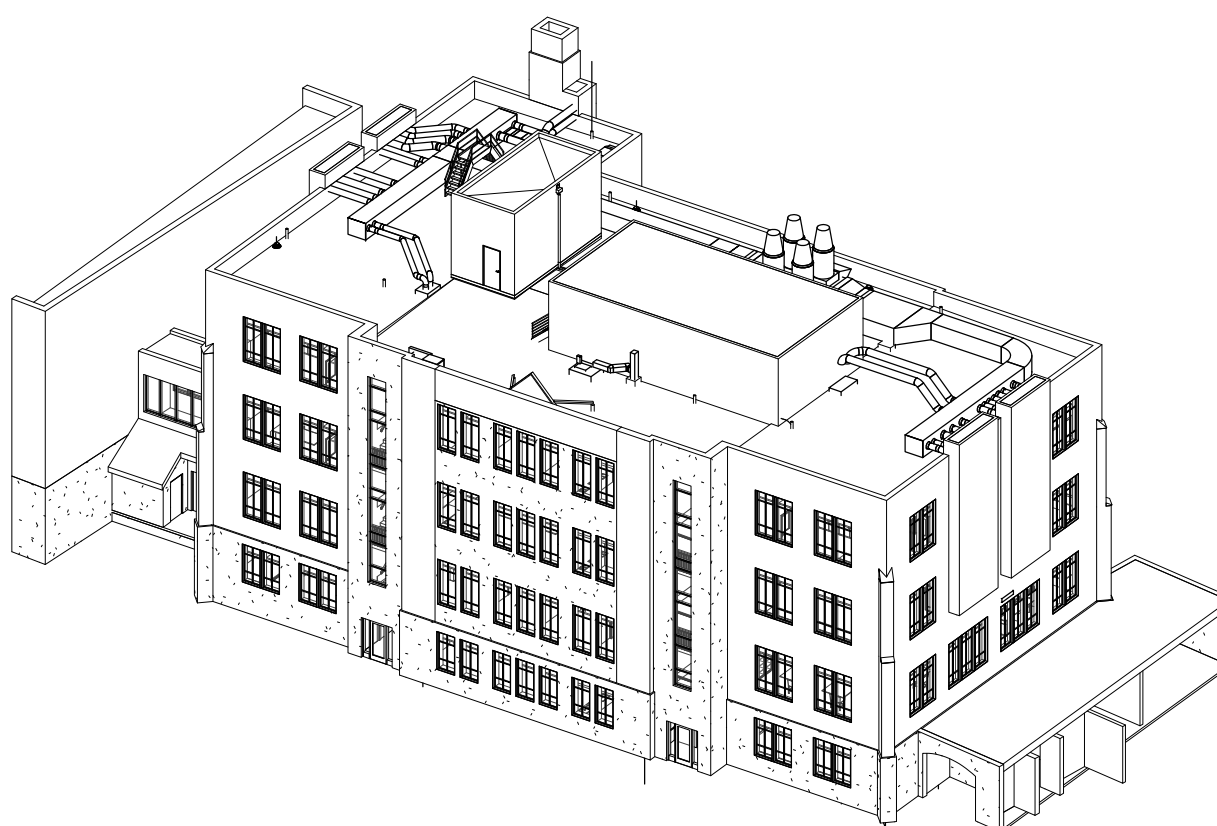
ABBREVIATIONS

AD	AREA DRAIN	GA	GAUGE	PORT CEM	PORTLAND CEMENT
ADJ	ADJACENT	GALV	GALVANIZED	PR	PAIR
AESS	ARCHITECTURALLY EXPOSED	GEN	GENERAL	PREFAB	PREFABRICATED
AFF	ABOVE FINISHED FLOOR	GFR	GLASS-FIBER REINFORCED	PRKG	PARKING
AHU	AIR HANDLING UNIT	GL	GLASS	PROJ	PROJECT
AL	ALUMINUM	GLU LAM	GLUE LAMINATED	PROP	PROPERTY
ALT	ALTERNATE	GND	GROUND	PSF	POUNDS PER SQUARE FOOT
ANOD	ANODIZED	GR	GRADE	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE	GW	GYPSUM WALL BOARD	PT	PAINT
APT	APARTMENT	GYP	GYPSUM	PVC	POLYVINYL CHLORIDE
ARCH	ARCHITECTURAL, ARCHITECT	GYP BD	GYPSUM BOARD	QT	QUARRY TILE
BD	BOARD	H	HIGH	QTY	QUANTITY
BTW	BETWEEN	HBB	HOSSE BIB	R	RISER
BL	BRICK LEDGE	HD	HEAD	RAD	RADIUS
BLDG	BUILDING	HDW	HARDWARE	RCP	REFLECTED CEILING PLAN
BLKG	BLOCKING	HM	HOLLOW METAL	RD	ROOF DRAIN
BM	BEAM	HORIZ	HORIZONTAL	REBAR	REINFORCING BAR
BJ BOT	BOTTOM	HP	HIGH POINT	RECP	RECEPTACLE
BRG	BEARING	HR	HOUR	REF	REFER OR REFERENCE
BSMT	BASEMENT	HT	HEIGHT	REINF	REINFORCING
BUR	BUILT-UP ROOF	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	REQD	REQUIRED
C TO C	CENTER TO CENTER	HW	HOT WATER	REV	REVISE, REVISION
CAB	CABINET	ID	INSIDE DIAMETER	RM	ROOM
CB	CATCH BASIN	IN	INCH	RO	ROUGH OPENING
CF	CUBIC FOOT	INSUL	INSULATION	RW	RIGHT OF WAY
CJ	CONTROL JOINT	INT	INTERIOR	SA	SUPPLY AIR
CL	CENTER LINE	INV	INVERT	SAN	SANITARY
CLG	CEILING	JAN	JANITOR	SCHED	SCHEDULE
CLR	CLEAR(ANCE)	K	KIPS (1000 LB)	SD	SECTION
CMU	CONCRETE MASONRY UNIT	KIT	KITCHEN	SECT	SECTION
CO	CLEAN OUT	KP	KICKPLATE	SF	SQUARE FEET
COL	COLUMN	KSF	KIPS PER SQUARE FOOT	SHT	SHEET
COMM	COMMUNICATIONS	L	ANGLE	SIM	SIMILAR
CONC	CONCRETE	LAB	LABORATORY	SOG	SLAB ON GRADE
CONT	CONTINUOUS	LAM	LAMINATE	SP	STANDPIPE
CPT	CARPET	LAV	LAVATORY	SPEC	SPECIFICATION
CT	CERAMIC TILE	LB	POUND (WEIGHT)	SQ	SQUARE
CTR	CENTER	LF	LINEAL FOOT	SS	STAINLESS STEEL
CW	CURTAIN WALL	LL	LINEAL, LINEAL	STC	CLASS SOUND TRANSMISSION
D	DEPTH	LLH	LONG LEG HORIZONTAL	STD	STANDARD
DEMO	DEMOLISH, DEMOLITION	LLV	LONG LEG VERTICAL	STL	STEEL
DEPT	DEPARTMENT	LP	LOW POINT	STOR	STORAGE
DF	DRINKING FOUNTAIN	LT	LIGHT	STRUCT	STRUCTURAL
DIA	DIAMETER	LTG	LIGHTING	SUSP	SUSPENDED
DIM	DIMENSION	LW	LIGHTWEIGHT	SY	SQUARE YARD
DL	DEAD LOAD	LWC	LIGHTWEIGHT CONCRETE	T	TREAD
DN	DOWN	MAS	MASONRY	T & B	TOP AND BOTTOM
DS	DOWNSPOUT	MATL	MATERIAL	TC	TOP OF CURB
DTL	DETAIL	MAX	MAXIMUM	TEMP	TEMPORARY
DWG	DRAWING	MECH	MECHANICAL	T/FTG	TOP OF FOOTING
EA	EACH	MFR	MANUFACTURER	THK	THICK
EXP BLT	EXPANSION BOLT	MH	MANHOLE	THRU	THROUGH
EFT	EXISTING FINISH TO REMAIN	MIN	MINIMUM	TKBD	TACKBOARD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MISC	MISCELLANEOUS	T/BEAM	TOP OF BEAM
EJ	EXPANSION JOINT	MO	MASONRY OPENING	T/CONC	TOP OF CONCRETE
EL ELEV	ELEVATION	MTD	MOUNTED	T/FTG	TOP OF FOOTING
ELEC	ELECTRIC(CAL)	MTL	METAL	T/PAR	TOP OF PARAPET
EQ	EQUAL	NA	NOT APPLICABLE	T/SLAB	TOP OF SLAB
EQUIP	EQUIPMENT	NIC	NOT IN CONTRACT	T/STL	TOP OF STEEL
EW	EACH WAY	NO, #	NUMBER	T/WALL	TOP OF WALL
EW/C	ELECTRIC WATER COOLER	NOM	NOMINAL	TYP	TYPICAL
EW/F	ENGINEERED WOOD FLOORING	NRC	NOISE REDUCTION COEFFICIENT	TZ	TERRAZZO
EXH	EXHAUST	NTS	NOT TO SCALE	UNEX	UNEXCAVATED
EX	EXISTING			UNFN	UNFINISHED
EXP	EXPOSED			UNO	UNLESS NOTED OTHERWISE
EXT	EXTERIOR			VAR	VARIES
F/CONC	FACE OF CONCRETE	O TO O	OUT TO OUT	VCT	VINYL COMPOSITION TILE
F/FIN	FACE OF FINISH	OC	ON CENTER	VERT	VERTICAL
F/MAS	FACE OF MASONRY	OD	OUTSIDE DIAMETER	VEST	VESTIBULE
F/STD	FACE OF STUDS	OH	OPPOSITE HAND	W/	WITH
FA	FIRE ALARM	OPNG	OPENING	W/O	WITHOUT
FD	FLOOR DRAIN	OPP	OPPOSITE	W	WIDTH
FDN	FOUNDATION	OVHD	OVERHEAD	WC	WATER CLOSET
FE	FIRE EXTINGUISHER	OZ	OUNCE	WD	WOOD
FEC	FIRE EXTINGUISHER CABINET	PLAM	PLASTIC LAMINATE	WF	WIDE FLANGE
FF	FINISH FLOOR	PERF	PERFORATED	WH	WATER HEATER
FIN	FINISH	PLATE	PLATE	WL	WIND LOAD
FIXT	FIXTURE	PLAM	PLASTIC LAMINATE	WP	WATERPROOFING
FLR	FLOOR	PLBG	PLUMBING	WR	WATER RESISTANT
FO	FACE OF	PLF	POUNDS PER LINEAL FOOT	WT	WEIGHT
FR	FIRE RETARDANT	PLYWD	PLYWOOD	WWF	WELDED WIRE FABRIC
FT	FOOT	POL	POLISHED		
FTG	FOOTING				

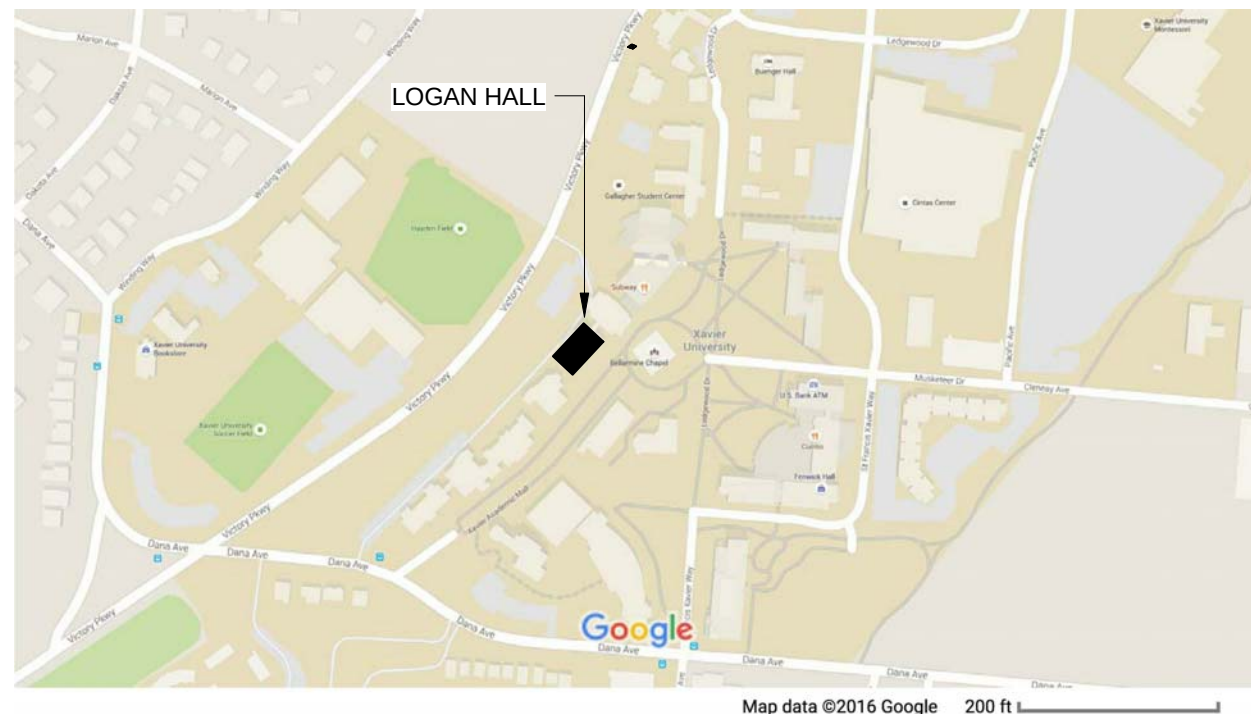
SHEET LIST	
Sheet Number	Sheet Name
G000	COVER AND PROJECT INFORMATION
G010	ARCHITECTURAL PROJECT NOTES
D200	DEMOLITION PLAN - LOWER LEVEL
D201	DEMOLITION PLAN - FIRST FLOOR
D202	DEMOLITION PLAN - SECOND FLOOR
D203	DEMOLITION PLAN - THIRD FLOOR
D204	DEMOLITION PLAN - ROOF
D220	DEMOLITION PLAN - LOWER LEVEL CEILING
D221	DEMOLITION PLAN - FIRST FLOOR CEILING
D222	DEMOLITION PLAN - SECOND FLOOR CEILING
D223	DEMOLITION PLAN - THIRD FLOOR CEILING
A200	FLOOR PLAN - LOWER LEVEL
A201	FLOOR PLAN - FIRST FLOOR
A202	FLOOR PLAN - SECOND FLOOR
A203	FLOOR PLAN - THIRD FLOOR
A204	ROOF PLAN
A220	REFLECTED CEILING PLAN - LOWER LEVEL
A221	REFLECTED CEILING PLAN - FIRST FLOOR
A222	REFLECTED CEILING PLAN - SECOND FLOOR
A223	REFLECTED CEILING PLAN - THIRD FLOOR
A601	SCHEDULES, DETAILS
A601	INTERIOR ELEVATIONS
A602	INTERIOR ELEVATIONS
PD100	DEMOLITION LOWER LEVEL PLUMBING PLAN
PD101	DEMOLITION FIRST FLOOR PLUMBING PLAN
PD102	DEMOLITION SECOND FLOOR PLUMBING PLAN
PD103	DEMOLITION THIRD FLOOR PLUMBING PLAN
PD104	DEMOLITION PLUMBING ROOF PLAN
P100	NEW WORK LOWER LEVEL PLUMBING PLAN
P101	NEW WORK FIRST FLOOR PLUMBING PLAN
P102	NEW WORK SECOND FLOOR PLUMBING PLAN
P103	NEW WORK THIRD FLOOR PLUMBING PLAN
P104	NEW WORK PLUMBING ROOF PLAN
MSD100	DEMOLITION LOWER LEVEL SHEET METAL PLAN
MSD101	DEMOLITION FIRST FLOOR SHEET METAL PLAN
MSD102	DEMOLITION SECOND FLOOR SHEET METAL PLAN
MSD103	DEMOLITION THIRD FLOOR SHEET METAL PLAN
MSD104	DEMOLITION SHEET METAL ROOF PLAN
MPD100	DEMOLITION LOWER LEVEL MECHANICAL PIPING PLAN
MPD101	DEMOLITION FIRST FLOOR MECHANICAL PIPING PLAN
MPD102	DEMOLITION SECOND FLOOR MECHANICAL PIPING PLAN
MPD103	DEMOLITION THIRD FLOOR MECHANICAL PIPING PLAN
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MP103	NEW WORK THIRD FLOOR MECHANICAL PIPING PLAN
MP104	NEW WORK MECHANICAL PIPING ROOF PLAN
M200	MECHANICAL DETAILS
M400	MECHANICAL SCHEDULES
M401	MECHANICAL SCHEDULES
M700	CONTROL DIAGRAMS
M701	CONTROL DIAGRAMS
ED100	DEMOLITION LOWER LEVEL ELECTRICAL PLAN
ED101	DEMOLITION FIRST FLOOR ELECTRICAL PLAN
ED102	DEMOLITION SECOND FLOOR ELECTRICAL PLAN
ED103	DEMOLITION THIRD FLOOR ELECTRICAL PLAN
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E103	NEW WORK THIRD FLOOR ELECTRICAL PLAN
E104	NEW WORK ELECTRICAL ROOF PLAN
E200	ELECTRICAL DETAILS
E400	ELECTRICAL SINGLE LINE DIAGRAM
E401	ELECTRICAL PANEL SCHEDULES
E402	ELECTRICAL PANEL SCHEDULES
E403	ELECTRICAL PANEL SCHEDULES



VIEW



AXONOMETRIC



VICINITY MAP

Xavier University Logan Hall Renovation

3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



304 East Eighth
Cincinnati OH
45202-2231
v. (513) 665-9555
f. (513) 665-9857

glaserworks
architecture & urban design



PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:



Motz Engineering
300 West 4th Street, Suite 300
Cincinnati, OH 45202-2666
T: 513.621.5400
F: 513.621.5407

MEP Design Security Sustainable Design
Commissioning Design/Build

STRUCTURAL ENGINEERS:

schaefer

10411 Medallion Drive, Suite 121
Cincinnati, OH 45241
T: 513.542.3300
F: 513.542.5540

SHEET REVISION		
REV #	DATE	DESCRIPTION

REVISION		
MPD100	DEMOLITION LOWER LEVEL MECHANICAL PIPING PLAN	
MPD101	DEMOLITION FIRST FLOOR MECHANICAL PIPING PLAN	
MPD102	DEMOLITION SECOND FLOOR MECHANICAL PIPING PLAN	
MPD103	DEMOLITION THIRD FLOOR MECHANICAL PIPING PLAN	

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DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

COVER AND PROJECT INFORMATION

G000

ARCHITECT	Xavier University Logan Hall Renovation 3800 Victory Parkway Cincinnati, OH 45207 Project #: 16015											
	304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design STATE OF OHIO 10106 M.H. MALTINSKY 12/31/2017 EXPIRATION DATE: 12/31/2017											
	STAMP											
	ENGINEERS											
PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Commissioning Security Design/Build Sustainable Design												
STRUCTURAL ENGINEERS: schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540												
REVISION	<table><tr><th colspan="3">SHEET REVISION</th></tr><tr><th>REV #</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td> </td><td> </td><td> </td></tr></table>			SHEET REVISION			REV #	DATE	DESCRIPTION			
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ISSUE	<table><tr><th>DATE</th><th colspan="2">DESCRIPTION</th></tr><tr><td>03/07/2017</td><td colspan="2">BID PACKAGE NO. 3 BIDDING AND PERMIT</td></tr></table>			DATE	DESCRIPTION		03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT				
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03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT											
DWG TITLE	ARCHITECTURAL PROJECT NOTES											
SHEET NO.	G010											

GENERAL INFORMATION

- CONTRACT DOCUMENTS: Architectural drawings are for general building trades portions of Work. These Drawings shall form a portion of the Contract Documents for the overall project. The Contract Documents for the overall project will also include drawings and specification for other portions of the work such as mechanical, electrical, plumbing, and Owner / Contractor Agreements and General and Supplemental Conditions for the construction Work. The Architect's responsibilities are limited to these Drawings specifically created to indicate the design intent for general building trades.
- Engineering Contract Documents may be attached to this set of Drawings for coordination and for the acquisition of Building Permit(s) and for the convenience of the Contractor for construction. This compilation is for convenience only and does NOT indicate any responsibility by the Architect for these attached documents.
- These Drawings do not contain complete specifications as to product quality, warranty, testing standards or finish, or wage, bidding, insurance requirements, or other conditions typically found in the full commercial building type specifications. These Drawings contain proprietary specifications for materials and products.
- Do not scale drawings. Contractor to verify all dimensions and information in these drawings. All errors, omissions and inconsistencies in these drawings are to be reported to the Architect immediately upon their discovery, and prior to proceeding further with the Work. Failure to do so releases the Architect and the Architect's Consultants from responsibility for those errors and omissions, and for any resolutions responding to such errors and omissions. Any job conditions that arise that may cause the contractor to vary from these drawings shall be analyzed by the Contractor and reported to the Architect or Architect's Consultants prior to continuing with the Work. Failure to do so releases the Architect and Architect's Consultants from responsibility for such inconsistencies and the resolutions responding to such inconsistencies.
- The Contractor shall notify Architect of any discrepancies between the Drawings and code requirements, or assumed field conditions, before Work is commenced or continues. There shall be no deviation from the Drawings without written review by the Architect and/or Architect's Consultants.
- SCOPE(S) OF WORK: These Drawings are not intended to indicate scopes of work for subcontracting. Scope of work should be determined through consultation with the Owner and documents prepared by the Owner. The term "Contractor" in these Drawings shall mean any general contractor, construction manager, subcontractor or supplier performing Work or supplying materials and / or equipment for the project.
- Each Contractor shall visit the site prior to commencing Work to familiarize him / herself with the entire project site. Each Contractor shall review the entire set of Contract Documents prior to commencing Work to familiarize him / herself with the entire project scope - not just the portion of Work for which the Contractor will be responsible. All Contractor proposals / bids submitted to Owner shall be based on a thorough knowledge of all the Work within and associated with each Contractor's Work. Any discrepancy or uncertainty regarding the work should be verified with the Owner or the Owner's Contractor prior to the submission of a bid.
- Contractor shall be solely responsible for and have control over construction means, methods, techniques, procedures, sequences, safety programs and precautions and coordination for all portions of the work. The Contractor shall cooperate with the Owner or Owner's Contractor in scheduling and performing the Contractor's Work to avoid conflict with, delay in, or interference with, the work of the Owner, or other contractors.
- Samples of all finishes and finish materials specified in these documents shall be submitted to the Architect for review and selection.
- QUALITY OF WORK: All work shall comply with State and local codes, ordinances and safety regulations having authority bearing on the performance of the work and shall be done to the highest standards of craftsmanship by the respective trade. Any Contractor who performs work knowing it to be contrary to applicable laws, ordinances or regulations shall assume full responsibility and shall bear all attributable costs for remediation and/or replacing such Work, and all other Work required to be repaired or replaced due to such remedy. In addition, Contractors shall install all products specified or required to complete the work in accordance with manufacturer's written instructions and recommendations or, where applicable, current trade or association publications.
- ENVIRONMENTAL LIMITATIONS: Do not deliver or install wood doors, trim and flooring, acoustic panel ceilings, casework and other humidity-sensitive materials until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between 25 and 55 percent during the remainder of the construction period.
- GOVERNING CODE: Ohio Building Code - 2011, including all updates and amendments.
- The Owner shall be responsible to hire appropriate, qualified testing firms to perform all special testing required to assure compliance with Contract Documents, applicable industry standards and codes.
- All materials and labor shall have a minimum one-year guarantee / warranty. Guarantees shall be required of all branches of work. Contractor to remedy any defects in their work and pay for any resultant damages to other work for a period of one year from the date of Substantial Completion.
- PROJECT SITE: The Contractor is responsible for, and in control of the project site. The Contractor shall be completely and solely responsible for the conditions of the Project Site including safety of all people and property on or near the Project Site throughout the entire duration of construction and at all times including both working and non-working hours. Contractor shall take whatever measures are necessary to ensure the safety of all people on and near the Project Site such as: installation of barricades, fencing, fall protection, excavation "cave-in" protection, discovery and protection of utilities, etc.
- Contractor shall brace all portions of structures as required throughout the course of the Work to insure structural stability of the entire structure until the Project is complete and functioning as designed.
- Contractor shall remove all waste associated with their work from the Project Site on a regular basis, and do all final cleaning prior to acceptance of their Work. Contractor shall present their portion of Work to the Owner for acceptance, clean and ready for use. All finished surfaces, glass, fixtures and equipment to be clean and labels and protective coatings removed from all items.
- Contractor shall store materials in safe, dry and secure locations. Contractor shall secure any tools or equipment stored on the Project Site and shall coordinate the location of stored materials, equipment and tools with the Owner. Owner is not responsible for damage, theft or loss of any materials, equipment or tools stored on site.
- Contractor shall protect pedestrians and occupants during the demolition and construction of the Project per OBC 3306.
- Contractor shall protect the adjoining property during the demolition and construction of the Project per OBC 3307.
- DIMENSIONS: Exterior plan dimensions are to face of foundation walls and exterior face of masonry unless noted otherwise. Interior dimensions are to face of stud framing or exterior face of masonry walls unless otherwise noted on plans.
- EXISTING CONDITIONS: Elements noted "TO REMAIN" are assumed by architect to be in good condition and able to continue to fully function with minor repair and/or re-conditioning.
- Except where modified by specific notation, it shall be understood that the indication and/or description of any item in the drawings, project notes or both, carries with it the instruction to furnish and install the item, whether or not this instruction is explicitly stated.
- Repair adjacent construction and finishes in ceilings, walls, floors and partitions that have been damaged during demolition or construction or created during extension of work.
- See project manual for addition information.

MASONRY

- Masonry construction and materials shall conform to all requirements of "Specifications for Masonry Structures" (ACI 530.1-08/ASCE 6-08/TMS 602-08), except as modified by the requirements of these contract documents.
- Compressive strength shall be determined for each type of masonry by the Unit Strength method.

A. Concrete masonry: fm = 1500 psi at 28 days.
- Materials

A. Concrete masonry units: ASTM C90 Type I, normal weight aggregate per ASTM C33.

B. Mortar: ASTM C270, all masonry unless noted otherwise: Type S.

C. Portland cement-lime mortar:

1) Portland cement: Type I

2) Hydrated lime: Type S

D. Grout: ASTM C476, slump 8" to 11", minimum compressive strength = 2000 psi at 28 days.

E. Reinforcing steel: ASTM A615, ASTM A706, or ASTM A996, 60 KSI yield.

F. Horizontal joint reinforcing for single-wythe concrete masonry: ASTM A951 9-gage ladder type, hot-dipped galvanized per ASTM A153 Class B. Place reinforcing at 16" centers vertically for concrete masonry. Lap horizontal joint reinforcing 6" minimum. Horizontal joint reinforcing shall be discontinuous across movement joints.

THERMAL AND MOISTURE PROTECTION

- SEALANTS: Sealants shall be used at all joints between abutting materials, both exterior and interior, such as window and door frames, utility penetrations, etc. Exterior and interior sealants shall be as recommended for the specific application and as recommended for the specific substrate(s) by the manufacturer of such substrates and by the sealant manufacturer. Exterior sealant to be silicone.
- All penetrations in fire-rated assemblies shall be firestopped to meet or exceed the rating of the assembly. Firestopping shall be "3M" brand or other as approved by the reviewing authority (building inspector). Any penetration in a fire rated assembly shall not exceed an opening of 120 square inches except metal-ducted openings that have fire dampers.
- Roofing, Insulation, Protection Board, Flashing and Roof Accessories: See project manual.

OPENINGS

- HOLLOW METAL FRAMES: Provide frames in locations and in sizes indicated in the drawings.

A. Hollow metal frames to be Heavy Duty complying with SDI A250.8, Level 2.

B. Manufacturers: Provide hollow metal frames by one of the following:

1) Ceco Door/ASSA ABLOY

2) Curries Co./ASSA ABLOY

3) LaForce Inc.

4) MPI Group

5) Republic Door and Frames

6) Steelcraft/Ingersoll-Rand

C. Fire-resistance: Provide 45-minute fire-rated assembly complying with NFPA 80, listed and labeled by qualified testing agency acceptable to authorities having jurisdiction.

- DOORS: Provide doors in locations and in sizes as indicated in the drawings.

A. Flush, solid-core wood doors: Grade Premium with AA faces. Wood species: red oak, quarter sliced and stained; color to match existing. Provide doors, 1 3/4" thick of five ply construction, with core either glued wood stave or structural composite lumber.

B. Manufacturers: Provide doors by one of the following manufacturers:

1) Algoma Hardwoods, Inc.

2) Eggers Industries

3) Marshfield Door Systems, Inc.

4) Oshkosh Door Company

5) VT Industries

C. Fire resistance rated doors at corridors: Provide 20-minute fire-rated door complying with NFPA 80, listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction.

D. Door Hardware: Provide hardware as indicated below. Install hardware per BHMA A156. Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations: Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

1) Hardware Set:

(6) Hinges (standard weight): Hager BB1279, 26D finish. Alternative manufacturers: McKinney Products, Stanley Best.

(1) Set of self-latch flush bolts: Hager Z93D/Z94D, US26D finish. Alternative manufacturers: Rockwood Manufacturing, Trimco.

(1) Morris Lockset (classroom F05): Dorma M9070 T LT.B, 626 finish. Alternative manufacturers: Stanley Best, Sargent.

(1) Interchangeable Cylinder Core: Match Owner's existing.

(1) Coordinator: Hager 297D with 297F filler bar, black finish. Alternative manufacturers: Stanley Best, Rockwood Manufacturing.

(2) Mounting brackets: Hager 297 M or 297N, black finish. Alternative manufacturers: Stanley Best, Rockwood Manufacturing.

(2) Surface closers (parallel arm): Dorma 8916 AF89P, 689 finish. Alternative manufacturers: LCN, Sargent, Corbin-Russwin.

(2) Kick plates: Hager 194, 10" high B4E CSK, US 32D finish. Alternative manufacturers: Rockwood Manufacturing, Trimco.

(2) Wall stops: Hager Z30W, US 26D finish. Alternative manufacturers: Rockwood Manufacturing, Trimco.

(1) Dust-proof strike: Hager 280X, US26D finish. Alternative manufacturers: Rockwood Manufacturing, Trimco.

(1) Smoke seal (at head and jams): Hager Z26S, grey finish. Alternative manufacturers: National Guard Products, Penko.

E. Installation: Comply with CRI's "Carpet Installation Standard".

- Attic stock: Provide amount equal to 5% of amount installed, but not less than 10 sq. yds.

- EXTERIOR GLAZING (for replacement of louvers in aluminum glazing frames): Ceramic-coated, low-e, insulating spandrel glass.

- A. Product specifications:

1) Overall unit thickness: 1" (verify frame in field).

2) Thickness of each glass lite: 6.0 mm

3) Outdoor lite: Heat-strengthened float glass.

4) Interspace content: Air.

5) Indoor lite: Heat-strengthened float glass.

6) Low-E coating: Pyrolytic on second surface.

7) Opaque coating location: Fourth surface.

8) Winter nighttime U-factor: 0.29 maximum.

9) Summer daytime U-factor: 0.27 maximum.

B. Manufacturers:

1) Guardian Industries Corp.

2) Pilkington North America, Inc.

3) PPG Industries, Inc.

4) Viracoin, Inc.
- FINISHES
- All fire rated assemblies shall be installed in accordance with the specifications of the tested assembly as provided by the listing agency.
 - Maximum flame spread ratings of all interior finish materials as indicated on drawings.
 - NON-STRUCTURAL METAL FRAMING: Comply with ASTM C645 and C754. Provide framing sizes, gauges, spacings and profiles as indicated on drawings. Provide slip-type head deflection tracks, single long-leg runner or double-runner system at top of walls.
 - GYPSUM BOARD: Gypsum wallboard (GWB) shall be installed in conformance with the Gypsum Association's recommended practice for thickness, installation and finishing. Provide a Level 5 finish.
 - NEW ACOUSTIC PANEL CEILINGS (ACT-1)

A. Basis of Design: Armstrong "School Zone Fine Fissured" Tegular, 24" x 24" panels with tegular edge, model no. 1719, white. Provide Class A materials complying with ASTM E 1264.

B. Metal Suspension system: Basis of design: Armstrong Suprafine XL, 9/16" exposed tee, white.

C. Alternative manufacturers:

1) CertainTeed Corporation

2) United States Gypsum Company.

D. Install acoustical panel ceilings to comply with ASTM C 636/C and seismic design requirements required, according to manufacturer's written instructions and CISCAs "Ceiling Systems Handbook".

E. Attic stock: Provide one full box of ceiling panels.

F. Where existing acoustical tile ceilings are to be repaired or extended, match existing suspension system and panels. Verify in field.
- PAINT AND TRANSPARENT FINISHES: Provide paint in colors indicated on drawings or as selected by Architect from manufacturer's full range. Provide compatible primer coat to all paintable surfaces. All paints shall be low-VOC types complying with Ohio EPA Standards for Architectural and Industrial Maintenance (AIM) Coatings. Prepare all surfaces according to paint manufacturer's written recommendations.
- A. Manufacturers:

1) Sherwin Williams

2) Benjamin Moore

3) Porter

4) PPG

A. Interior paint and transparent finish schedule:

1) Ferrous metal surfaces: 3-coat latex system, semi-gloss finish.

2) CMU wall surfaces: 3-coat latex acrylic, eggshell finish.

3) Gypsum board ceiling surfaces: 3-coat latex acrylic, flat finish.

4) Gypsum board wall surfaces subject to medium abuse: 3-coat latex acrylic, eggshell finish.

5) Gypsum board wall surfaces in mechanical areas and other areas as directed: 3-coat acrylic epoxy, semi-gloss finish.

6) Wood transparent finish: 1 coat water-based stain and 2 coats clear catalyzed lacquer.

B. Exterior paint schedule:

1) Exterior galvanized metal and other exterior steel: 3-coat acrylic system, semi-gloss finish.

- SHEET VINYL FLOOR COVERING: Homogenous sheet vinyl flooring with heat-welded seams and integral cove base. Basis of design: Armstrong Meditone. Color to be selected from manufacturer's full range.

A. Alternative manufacturers:

1) Congoleum Corporation

2) Forbo Industries Inc.

3) Johnsonite

4) Mannington Mills, Inc.

B. Accessories:

1) Integral cove base

2) Radius cove strip

3) Cap strip

4) Pre-formed inside and outside corners provided or approved by flooring manufacturer.

5) Metal edge strips: ADA-compliant vinyl or aluminum to protect exposed edges of floor covering.

C. Installation: Comply with manufacturer's written instructions.
- SHEET CARPETING: Multi-level, cut/loop pattern nylon broadloom carpet.

A. Basis of design: Shaw Contract Group "grounded" carpet in "alterNature" collection.

B. Alternate manufacturer: Bentley Mills.

C. Product specification:

1) Color: to be selected by Architect from manufacturer's full range.

2) Fiber: 100% nylon 6,6.

3) Dye method: Combination solution/yard dyed.

4) Tufted weight: 32 oz./sq. yd.

5) Gauge: 1/12.

6) Stitches/inch: 10.0.

7) Finished pile thickness: 0.144 inch.

8) Density:8000 oz./cu. yd.

9) Primary backing: manufacturer's standard composite material.

10) Secondary backing: manufacturer's standard.

11) Size:12 foot

12) Applied treatments: Manufacturer's standard soil-resistance treatment.

D. Installation: Comply with CRI's "Carpet Installation Standard".
- Attic stock: Provide amount equal to 5% of amount installed, but not less than 10 sq. yds.

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EXPIRATION DATE 12/31/2017

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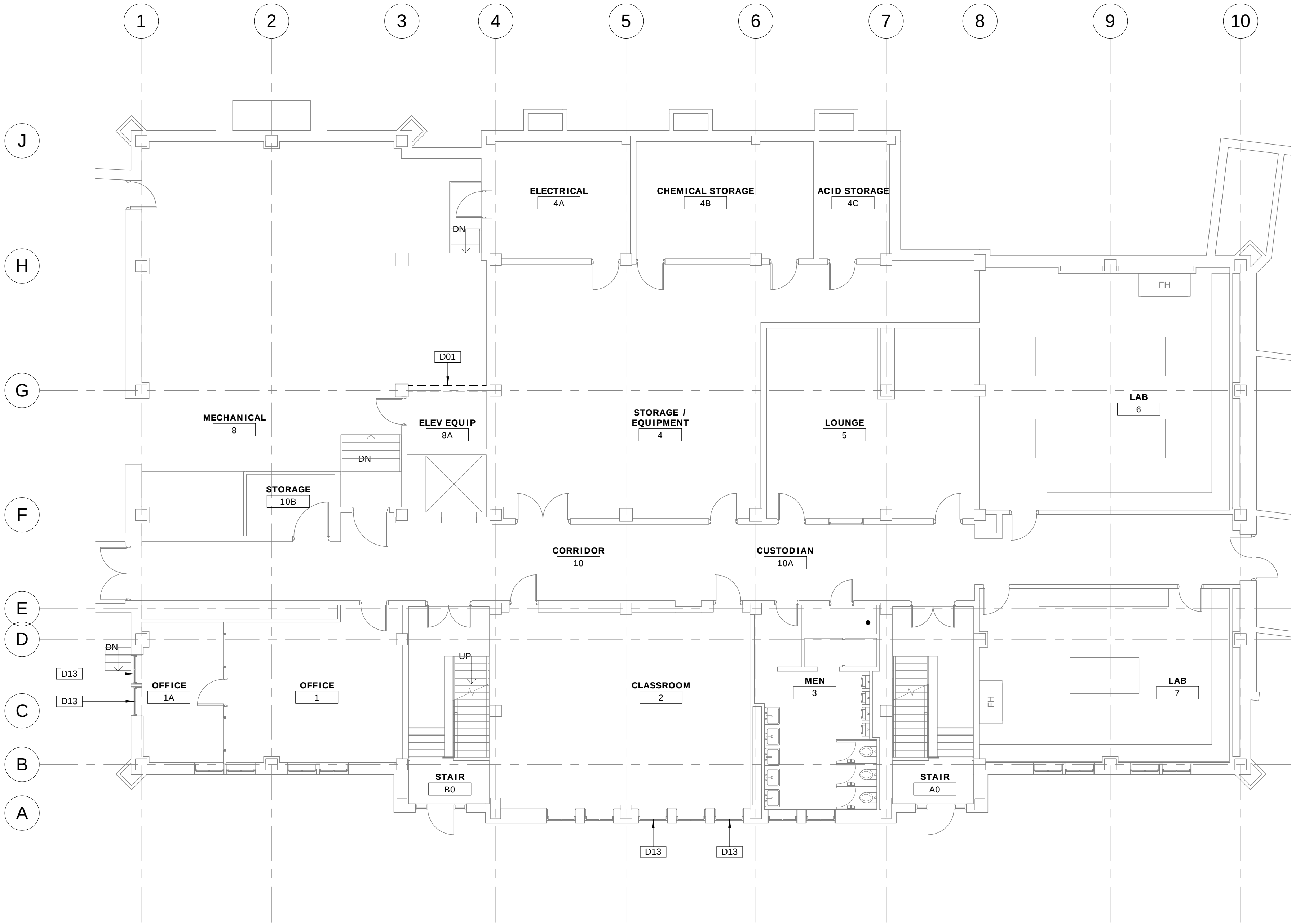
DEMOLITION
PLAN - LOWER
LEVEL

D200

GENERAL NOTES - DEMOLITION

- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- SEE CEILING DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- VERIFY EXISTING CONDITIONS IN FIELD.
- ACOUSTICAL CEILING TILES REMOVED ARE TO BE SAVED UNTIL PROJECT COMPLETION FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREA WHERE EXISTING ACOUSTICAL TILE CEILINGS ARE TO REMAIN.
- AREAS OF DEMOLITION AND NEW WORK WHICH WILL REMAIN EXPOSED AFTER PROJECT IS COMPLETE TO BE PATCHED, FINISHED AND PAINTED TO MATCH ADJACENT MATERIALS AND FINISHES.

KEYNOTES - DEMOLITION	
Key Value	Keynote Text
D01	REMOVE CMU WALL TO MINIMUM EXTENT POSSIBLE TO ACCOMPLISH NEW MEP WORK.
D02	SEE MECHANICAL DRAWINGS FOR REMOVAL OF FLOOR DECK THIS AREA.
D03	REMOVE GWB SHAFTWALL.
D04	REMOVE CARPET AND RESILIENT BASE AND PREPARE FLOOR TO RECEIVE NEW FINISHES.
D05	REMOVE DOOR AND FRAME - PROTECT SURROUNDING GLAZED BLOCK FROM DAMAGE
D06	REMOVE VINYL FLOOR TILE AND RESILIENT BASE AND PREPARE FLOOR TO RECEIVE NEW FINISHES.
D07	REMOVE FUME HOOD AND BASE CABINETS - SEE MEP FOR ADDITIONAL INFORMATION.
D08	REMOVE COUNTERTOP.
D09	REMOVE WORKSURFACE. STORE AND PROTECT FOR REINSTALLATION IN SAME LOCATION.
D10	SAWCUT AND REMOVE PREFACED BLOCK WALL IF REQUIRED FOR NEW MEP WORK.
D11	REMOVE BASE CABINET AND COUNTERTOP TO JOINT.
D12	REMOVE HARDBOARD PANELS FROM WOOD LOUVERS ABOVE WINDOWS/DOOR THIS WALL.
D13	REMOVE LOUVERS IN UPPER PANEL OF WINDOW (ABOVE CEILING).



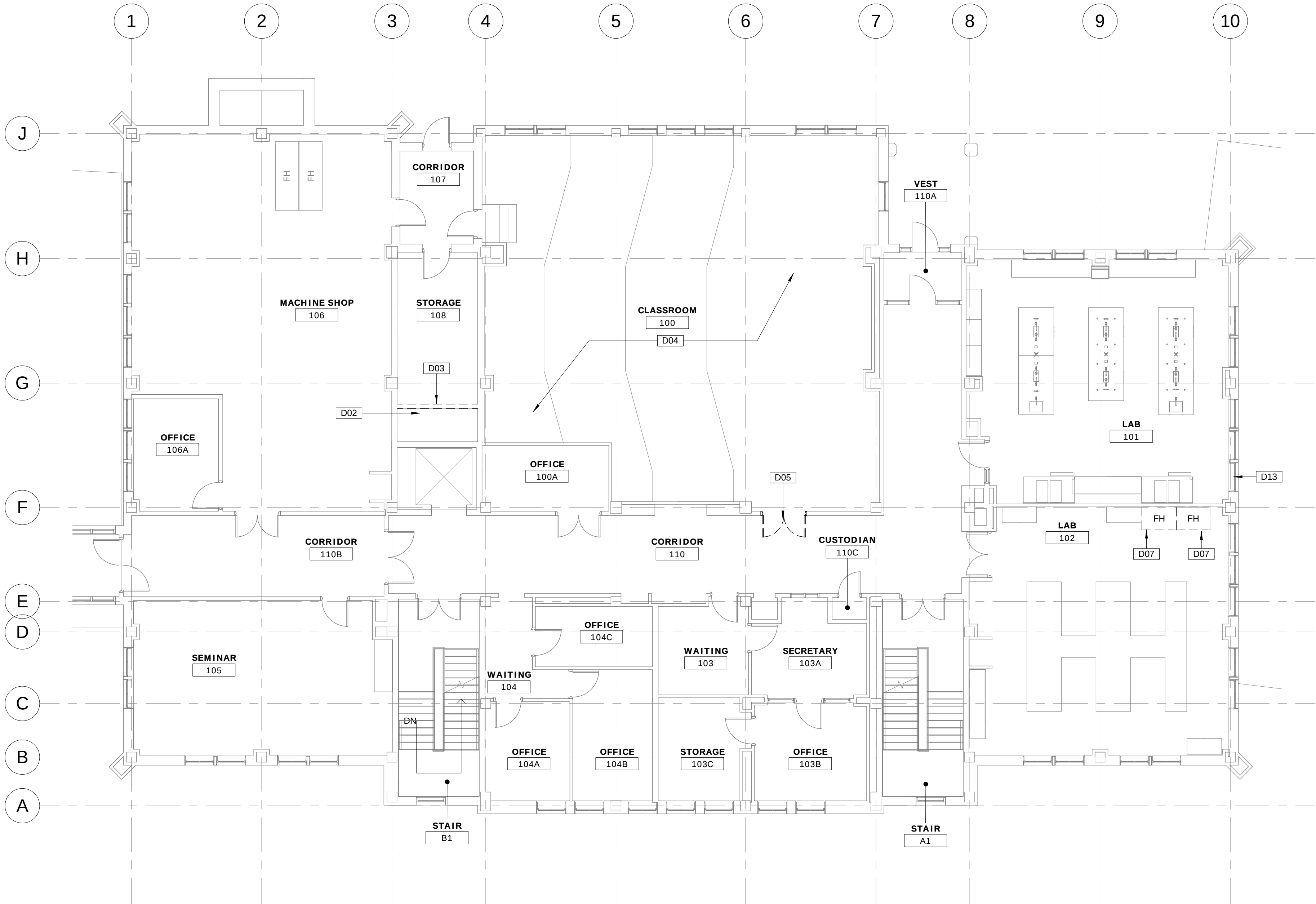
1 | DEMOLITION PLAN - LOWER LEVEL
1/8" = 1'-0"



GENERAL NOTES - DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. SEE CEILING DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- 3. VERIFY EXISTING CONDONS IN FIELD.
- 4. ACOUSTICAL CEILING TILES REMOVED ARE TO BE SAVED UNTIL PROJECT COMPLETION FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREA WHERE EXISTING ACOUSTICAL TILE CEILINGS ARE TO REMAIN.
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1 DEMOLITION PLAN - FIRST FLOOR
1/8" = 1'-0"



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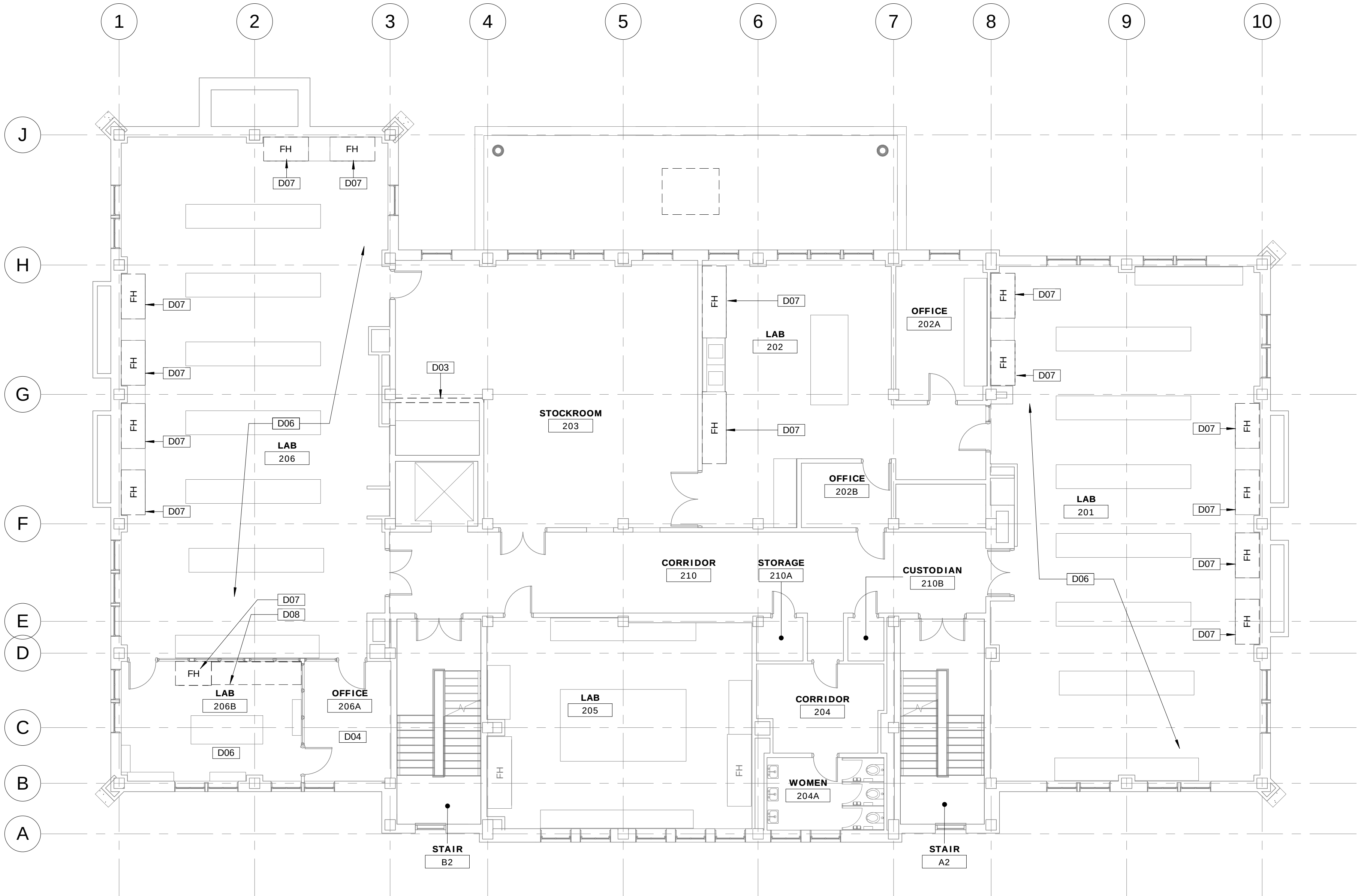
DWG TITLE
**DEMOLITION
PLAN - FIRST
FLOOR**

SHEET NO.
D201

GENERAL NOTES - DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. SEE CEILING DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- 3. VERIFY EXISTING CONDITONS IN FIELD.
- 4. ACOUSTICAL CEILING TILES REMOVED ARE TO BE SAVED UNTIL PROJECT COMPLETION FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREA WHERE EXISTING ACOUSTICAL TILE CEILINGS ARE TO REMAIN.
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1 | DEMOLITION PLAN - SECOND FLOOR
1/8" = 1'-0"



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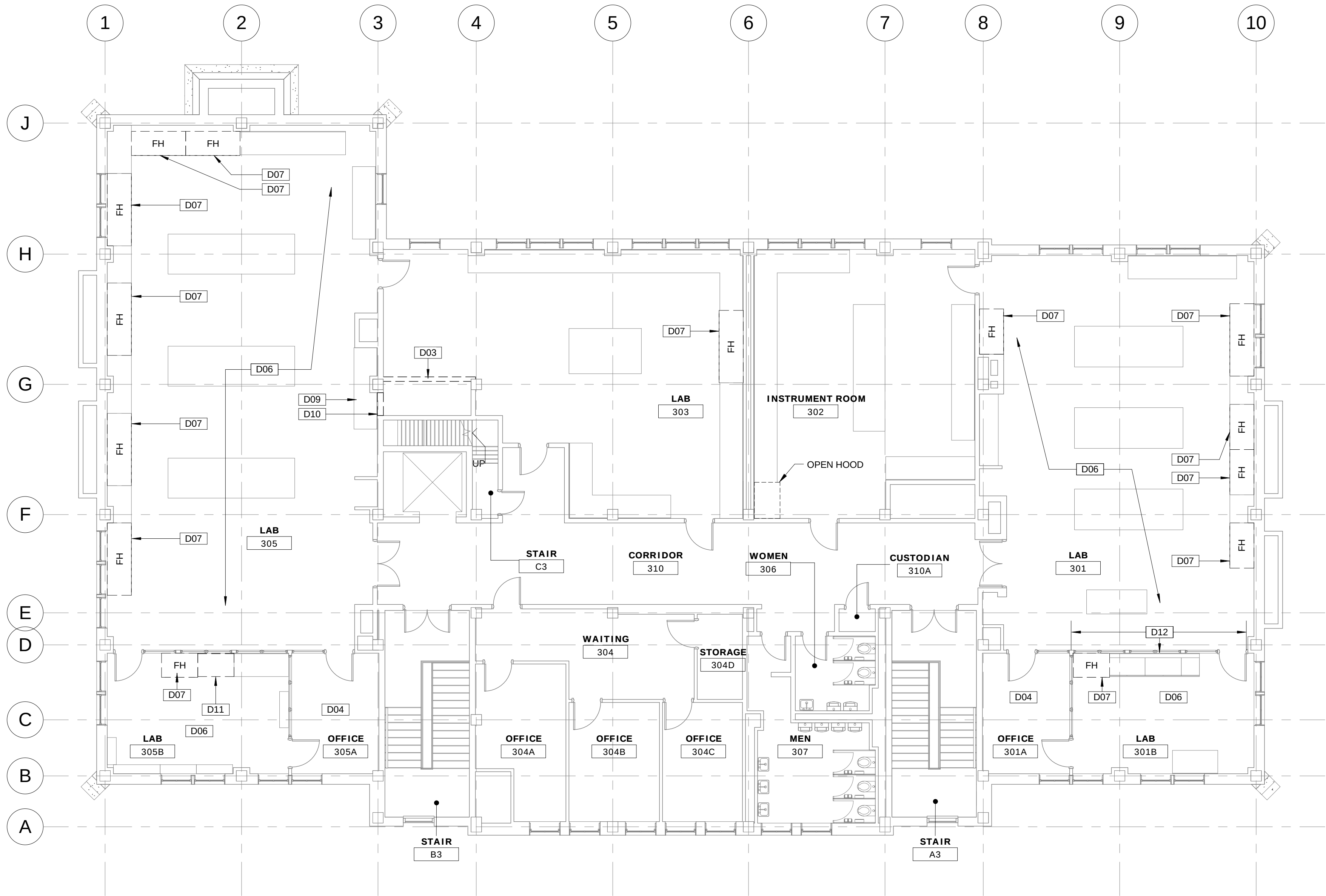
DEMOLITION
PLAN - SECOND
FLOOR

D202

GENERAL NOTES - DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. SEE CEILING DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- 3. VERIFY EXISTING CONDCTIONS IN FIELD.
- 4. ACOUSTICAL CEILING TILES REMOVED ARE TO BE SAVED UNTIL PROJECT COMPLETION FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREA WHERE EXISTING ACOUSTICAL TILE CEILINGS ARE TO REMAIN.
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D13	REMOVE LOUVERS IN UPPER PANEL OF WINDOW (ABOVE CEILING).



1 DEMOLITION PLAN - THIRD FLOOR
1/8" = 1'-0"



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DEMOLITION
PLAN - THIRD
FLOOR

D203

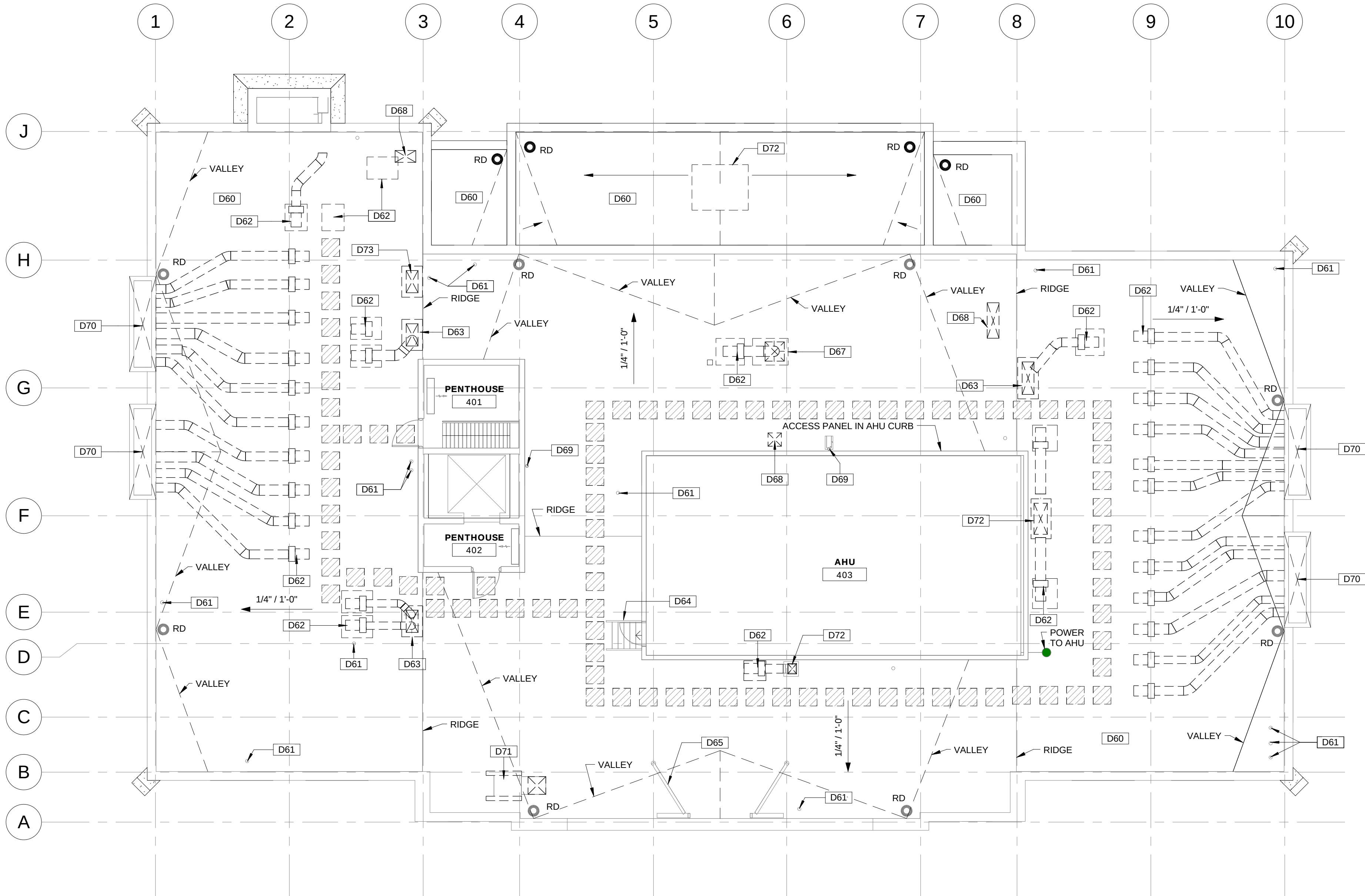
ROOF GENERAL NOTES:

1. MINIMUM INSULATION THICKNESS SHALL ACHIEVE R-20 (AT LOW END OF TAPER.)
2. FIELD VERIFY THAT 1/4" PER FOOT SLOPE OF TAPERED INSULATION WILL ALLOW FOR ADEQUATE FLASHING HEIGHT (8" MIN.) USE 1/8" PER FOOT TAPERED INSULATION IF NECESSARY TO ACHIEVE NECESSARY HEIGHT.
3. REMOVE ROOF DRAINS. PROVIDE NEW DRAINS IN SAME LOCATIONS AS EXISTING.
4. REMOVE FLASHING AND METAL COUNTERFLASHING AT ROOF PERIMETER. PROVIDE PERIMETER FLASHING WITH METAL COUNTERFLASHING. SEE DETAIL 4/A204.
5. SUPPORT DUCTWORK ON METAL CURBS ATTACHED TO CONCRETE DECK. PROVIDE FLASHING AROUND CURB. SEE DETAIL 3/A204. SEE MECHANICAL DRAWINGS FOR DUCT SUPPORT LOCATIONS.
6. DETAIL 4/A204 SHOWS TYPICAL ROOF ASSEMBLY.
7. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES - ROOF DEMOLITION	
Key Value	Keynote Text
D60	REMOVE BUILT-UP ROOFING, INSULATION AND SLOPED LIGHT-WEIGHT CONCRETE FILL ABOVE CONCRETE DECK. REMOVE WALK PADS.
D61	REMOVE LEAD FLASHING AT PLUMBING PENETRATION, TYPICAL.
D62	REMOVE MECHANICAL EQUIPMENT, POWER TO EQUIPMENT, DUCTWORK, SUPPORTS, FLASHINGS AND CURBS
D63	EXISTING ROOF PENETRATION AND CONCRETE CURB TO REMAIN. REMOVE FLASHING AND METAL CAP.
D64	EXISTING STEEL STAIRS TO REMAIN.
D65	EXISTING STEEL BRACE FOR PARAPET TO REMAIN.
D67	PATCH PENETRATION IN CONCRETE DECK. SEE MECHANICAL DRAWINGS FOR CONCRETE INFILL.
D68	NEW PENETRATION IN CONCRETE ROOF DECK BETWEEN CONCRETE JOISTS. COORDINATE SIZE WITH MECHANICAL DRAWINGS.
D69	REMOVE DOWNSPOUTS.
D70	REMOVE ROOFING AND PERIMETER FLASHING FROM TOP OF DUCT SHAFT.
D71	SALVAGE EXISTING EQUIPMENT AND DUCTWORK FOR REINSTALLATION. REMOVE FLASHING AND CURBS.
D72	REMOVE CURB, FLASHING AND METAL CAP.
D73	REMOVE CONCRETE CURB AND INFILL OPENING IN DECK. SEE MECHANICAL DRAWINGS FOR CONCRETE INFILL.
D74	REMOVE SCUPPER.

2 DEMO PLAN - PENTHOUSE ROOF

1/8" = 1'-0"
REF: 4 / A204



1 DEMO PLAN - ROOF

1/8" = 1'-0"



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DWG TITLE
**DEMOLITION
PLAN - ROOF**

SHEET NO.
D204

GENERAL NOTES - CEILING DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. NOTE HEIGHT AND GRID LAYOUT OF ACOUSTICAL TILE CEILINGS TO BE DEMOLISHED. NEW CEILINGS WILL BE INSTALLED AT SAME HEIGHT AND IN SAME GRID LAYOUT AS EXISTING TO BE REMOVED.
- 3. AREAS OF PARTIAL CEILING REMOVAL ARE APPROXIMATE. ACTUAL AREAS WILL BE AS REQUIRED TO ACCOMPLISH NEW MEP WORK.
- 4. IN AREAS OF PARTIAL CEILING REMOVAL, REMOVE CEILING TO MINIMUM EXTENT POSSIBLE TO ACCOMPLISH NEW MEP WORK.
- 5. EXISTING LIGHT FIXTURES TO REMAIN THROUGHOUT.
- 6. SAVE AND PROTECT EXISTING, REMOVED CEILING TILE FOR USE IN PATCHING AREAS DAMAGED DURING CONSTRUCTION.

KEYNOTES - CEILING DEMOLITION	
Key Value	Keynote Text
D30	REMOVE ACOUSTICAL CEILING TILE AND GRID SUSPENSION SYSTEM.
D31	REMOVE ACOUSTICAL CEILING TILES TO MINIMUM EXTENT NECESSARY TO COMPLETE NEW MEP WORK. SUSPENSION GRID TO REMAIN. REINSTALL TILES UPON COMPLETION OF MEP WORK.
D32	REMOVE GWB CEILING OR SOFFIT AND SUSPENSION SYSTEM.
D33	REMOVE GWB CEILING OR SOFFIT TO MINIMUM EXTENT NECESSARY TO COMPLETE NEW MEP WORK.



1 | DEMOLITION PLAN - LOWER LEVEL CEILING
1/8" = 1'-0"



CEILING DEMOLITION LEGEND

- INDICATES COMPLETE REMOVAL OF CEILING (INCLUDING GRID OR SUSPENSION SYSTEM) THIS ROOM OR AREA.
- INDICATES REMOVAL OF CEILING TO MINIMUM EXTENT POSSIBLE THIS AREA. AT ACOUSTICAL CEILINGS, REMOVE TILE ONLY, SUSPENSION GRID TO REMAIN. EXISTING TILE TO BE REINSTALLED.

NOTE: SEE KEYNOTES FOR ADDITIONAL INFORMATION

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DEMOLITION
PLAN - LOWER
LEVEL CEILING

D220

GENERAL NOTES - CEILING DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. NOTE HEIGHT AND GRID LAYOUT OF ACOUSTICAL TILE CEILINGS TO BE DEMOLISHED. NEW CEILINGS WILL BE INSTALLED AT SAME HEIGHT AND IN SAME GRID LAYOUT AS EXISTING TO BE REMOVED.
- 3. AREAS OF PARTIAL CEILING REMOVAL ARE APPROXIMATE. ACTUAL AREAS WILL BE AS REQUIRED TO ACCOMPLISH NEW MEP WORK.
- 4. IN AREAS OF PARTIAL CEILING REMOVAL, REMOVE CEILING TO MINIMUM EXTENT POSSIBLE TO ACCOMPLISH NEW MEP WORK.
- 5. EXISTING LIGHT FIXTURES TO REMAIN THROUGHOUT.
- 6. SAVE AND PROTECT EXISTING, REMOVED CEILING TILE FOR USE IN PATCHING AREAS DAMAGED DURING CONSTRUCTION.

KEYNOTES - CEILING DEMOLITION	
Key Value	Keynote Text
D30	REMOVE ACOUSTICAL CEILING TILE AND GRID SUSPENSION SYSTEM.
D31	REMOVE ACOUSTICAL CEILING TILES TO MINIMUM EXTENT NECESSARY TO COMPLETE NEW MEP WORK. SUSPENSION GRID TO REMAIN. REINSTALL TILES UPON COMPLETION OF MEP WORK.
D32	REMOVE GWB CEILING OR SOFFIT AND SUSPENSION SYSTEM.
D33	REMOVE GWB CEILING OR SOFFIT TO MINIMUM EXTENT NECESSARY TO COMPLETE NEW MEP WORK.

CEILING DEMOLITION LEGEND

- INDICATES COMPLETE REMOVAL OF CEILING (INCLUDING GRID OR SUSPENSION SYSTEM) THIS ROOM OR AREA.
- INDICATES REMOVAL OF CEILING TO MINIMUM EXTENT POSSIBLE THIS AREA. AT ACOUSTICAL CEILINGS: REMOVE TILE ONLY. SUSPENSION GRID TO REMAIN. EXISTING TILE TO BE REINSTALLED.
- NOTE: SEE KEYNOTES FOR ADDITIONAL INFORMATION



1 | DEMOLITION PLAN - FIRST FLOOR CEILING
1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

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DEMOLITION
PLAN - FIRST
FLOOR CEILING

D221

GENERAL NOTES - CEILING DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. NOTE HEIGHT AND GRID LAYOUT OF ACOUSTICAL TILE CEILINGS TO BE DEMOLISHED. NEW CEILINGS WILL BE INSTALLED AT SAME HEIGHT AND IN SAME GRID LAYOUT AS EXISTING TO BE REMOVED.
- 3. AREAS OF PARTIAL CEILING REMOVAL ARE APPROXIMATE. ACTUAL AREAS WILL BE AS REQUIRED TO ACCOMPLISH NEW MEP WORK.
- 4. IN AREAS OF PARTIAL CEILING REMOVAL, REMOVE CEILING TO MINIMUM EXTENT POSSIBLE TO ACCOMPLISH NEW MEP WORK.
- 5. EXISTING LIGHT FIXTURES TO REMAIN THROUGHOUT.
- 6. SAVE AND PROTECT EXISTING, REMOVED CEILING TILE FOR USE IN PATCHING AREAS DAMAGED DURING CONSTRUCTION.

KEYNOTES - CEILING DEMOLITION	
Key Value	Keynote Text
D30	REMOVE ACOUSTICAL CEILING TILE AND GRID SUSPENSION SYSTEM.
D31	REMOVE ACOUSTICAL CEILING TILES TO MINIMUM EXTENT NECESSARY TO COMPLETE NEW MEP WORK. SUSPENSION GRID TO REMAIN. REINSTALL TILES UPON COMPLETION OF MEP WORK.
D32	REMOVE GWB CEILING OR SOFFIT AND SUSPENSION SYSTEM.
D33	REMOVE GWB CEILING OR SOFFIT TO MINIMUM EXTENT NECESSARY TO COMPLETE NEW MEP WORK.

CEILING DEMOLITION LEGEND

- INDICATES COMPLETE REMOVAL OF CEILING (INCLUDING GRID OR SUSPENSION SYSTEM) THIS ROOM OR AREA.
- INDICATES REMOVAL OF CEILING TO MINIMUM EXTENT POSSIBLE THIS AREA. AT ACOUSTICAL CEILINGS, REMOVE TILE ONLY. SUSPENSION GRID TO REMAIN. EXISTING TILE TO BE REINSTALLED.
- NOTE: SEE KEYNOTES FOR ADDITIONAL INFORMATION



1 DEMOLITION PLAN - SECOND FLOOR CEILING
1/8" = 1'-0"



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DEMOLITION
PLAN - SECOND
FLOOR CEILING

D222

GENERAL NOTES - CEILING DEMOLITION

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. NOTE HEIGHT AND GRID LAYOUT OF ACOUSTICAL TILE CEILINGS TO BE DEMOLISHED. NEW CEILINGS WILL BE INSTALLED AT SAME HEIGHT AND IN SAME GRID LAYOUT AS EXISTING TO BE REMOVED.
- 3. AREAS OF PARTIAL CEILING REMOVAL ARE APPROXIMATE. ACTUAL AREAS WILL BE AS REQUIRED TO ACCOMPLISH NEW MEP WORK.
- 4. IN AREAS OF PARTIAL CEILING REMOVAL, REMOVE CEILING TO MINIMUM EXTENT POSSIBLE TO ACCOMPLISH NEW MEP WORK.
- 5. EXISTING LIGHT FIXTURES TO REMAIN THROUGHOUT.
- 6. SAVE AND PROTECT EXISTING, REMOVED CEILING TILE FOR USE IN PATCHING AREAS DAMAGED DURING CONSTRUCTION.

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CEILING DEMOLITION LEGEND

- INDICATES COMPLETE REMOVAL OF CEILING (INCLUDING GRID OR SUSPENSION SYSTEM) THIS ROOM OR AREA.
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- NOTE: SEE KEYNOTES FOR ADDITIONAL INFORMATION



1 DEMOLITION PLAN - THIRD FLOOR CEILING
1/8" = 1'-0"



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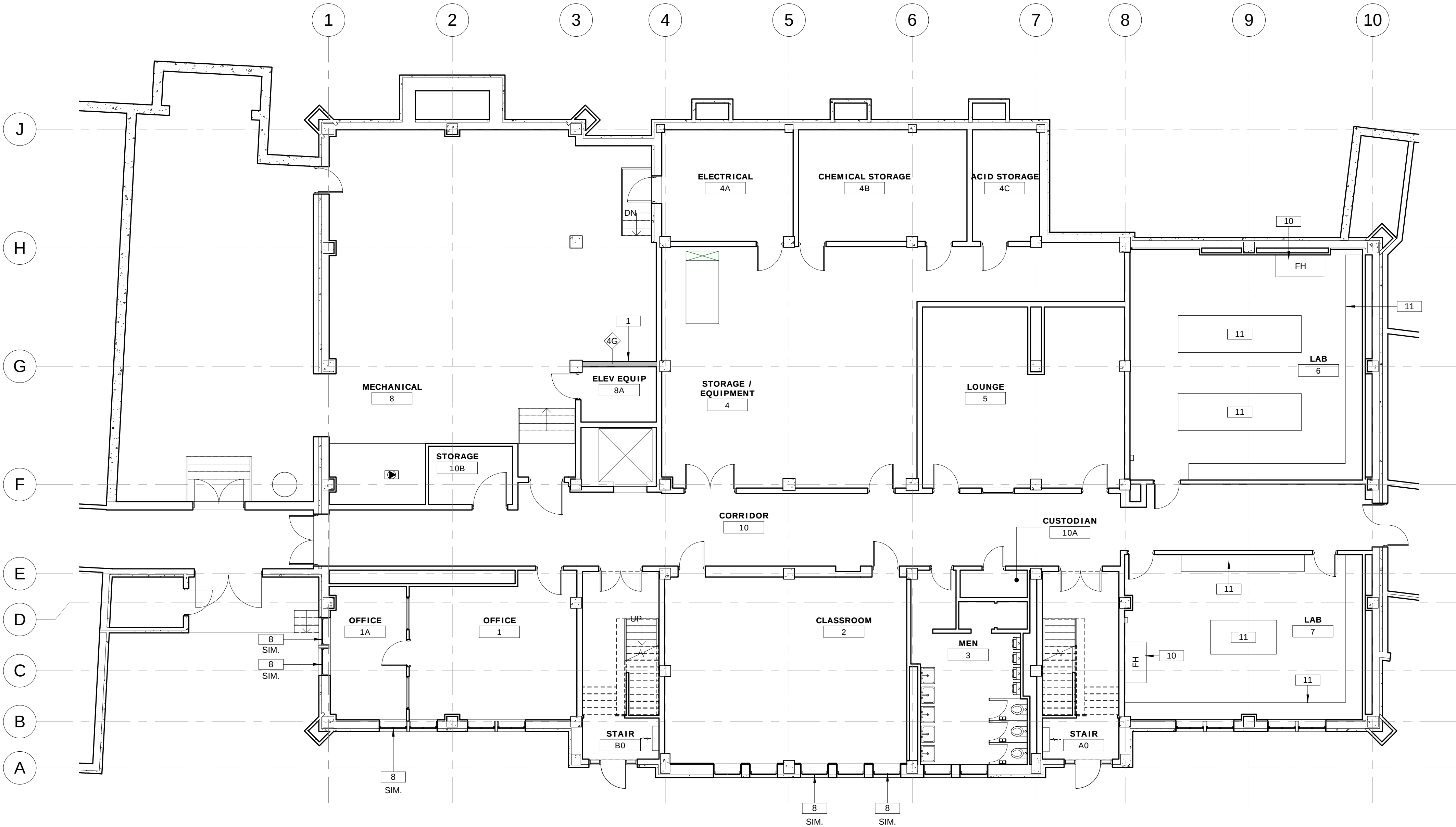
DEMOLITION
PLAN - THIRD
FLOOR CEILING

D223

GENERAL NOTES - FLOOR PLANS

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. VERIFY DIMENSIONS AND EXISTING CONDITIONS IN FIELD.
- 3. PATCH, FINISH AND PAINT EXISTING FLOORS, WALLS, CEILINGS AND TRIM IN AREAS OF NEW WORK TO MATCH EXISTING ADJACENT.

KEYNOTES - FLOOR PLANS	
Key Value	Keynote Text
1	REPAIR / REPLACE PORTION OF CMU WALL REMOVED TO COMPLETE NEW MEP WORK.
2	NEW 2-HOUR RATED GWB SHAFT WALL ASSEMBLY.
3	REINSTALL EXISTING COUNTER.
4	NEW RESILIENT BASE THIS WALL TO MATCH EXISTING ADJACENT.
5	PATCH VCT FLOORING IN AREA OF NEW WALL.
6	INSTALL TRANSLUCENT FILM ON WINDOWS AT FUME HOOD: 3M "FASARA" OR APPROVED EQUAL - PROVIDE MFR'S FULL RANGE OF FROST / MATTE SAMPLES FOR SELECTION BY ARCHITECT.
7	NEW DOOR AND FRAME - SEE DETAIL ON SHEET A501.
8	REPLACE LOUVER IN GLAZING FRAME WITH INSULATED SPANDREL GLASS TO MATCH EXISTING - SEE WINDOW ELEVATION DETAIL SHEET A501.
9	NEW FUME HOOD AND BASE CABINETS.
10	EXISTING FUME HOOD AND BASE CABINETS TO REMAIN.
11	EXISTING CASEWORK TO REMAIN.
12	FIXED DESK TO REMAIN.
13	MAINTAIN 2-HOUR FIRE RESISTANCE RATING AT EXISTING SHAFT.
14	EXISTING EPOXY COUNTERTOP TO BE SHORTENED TO ACCEPT NEW FUME HOOD - SEE INTERIOR ELEVATIONS.



1 | FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

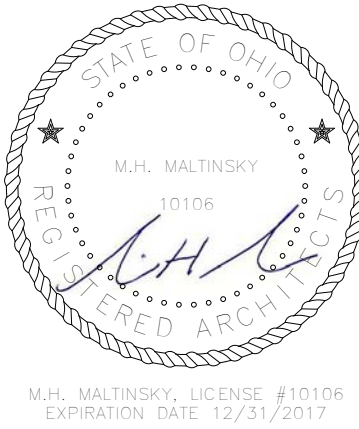
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DWG TITLE
FLOOR PLAN -
LOWER LEVEL

SHEET NO.
A200

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M.H. MALTINSKY, LICENSE #10106
EXPIRATION DATE: 12/31/2017

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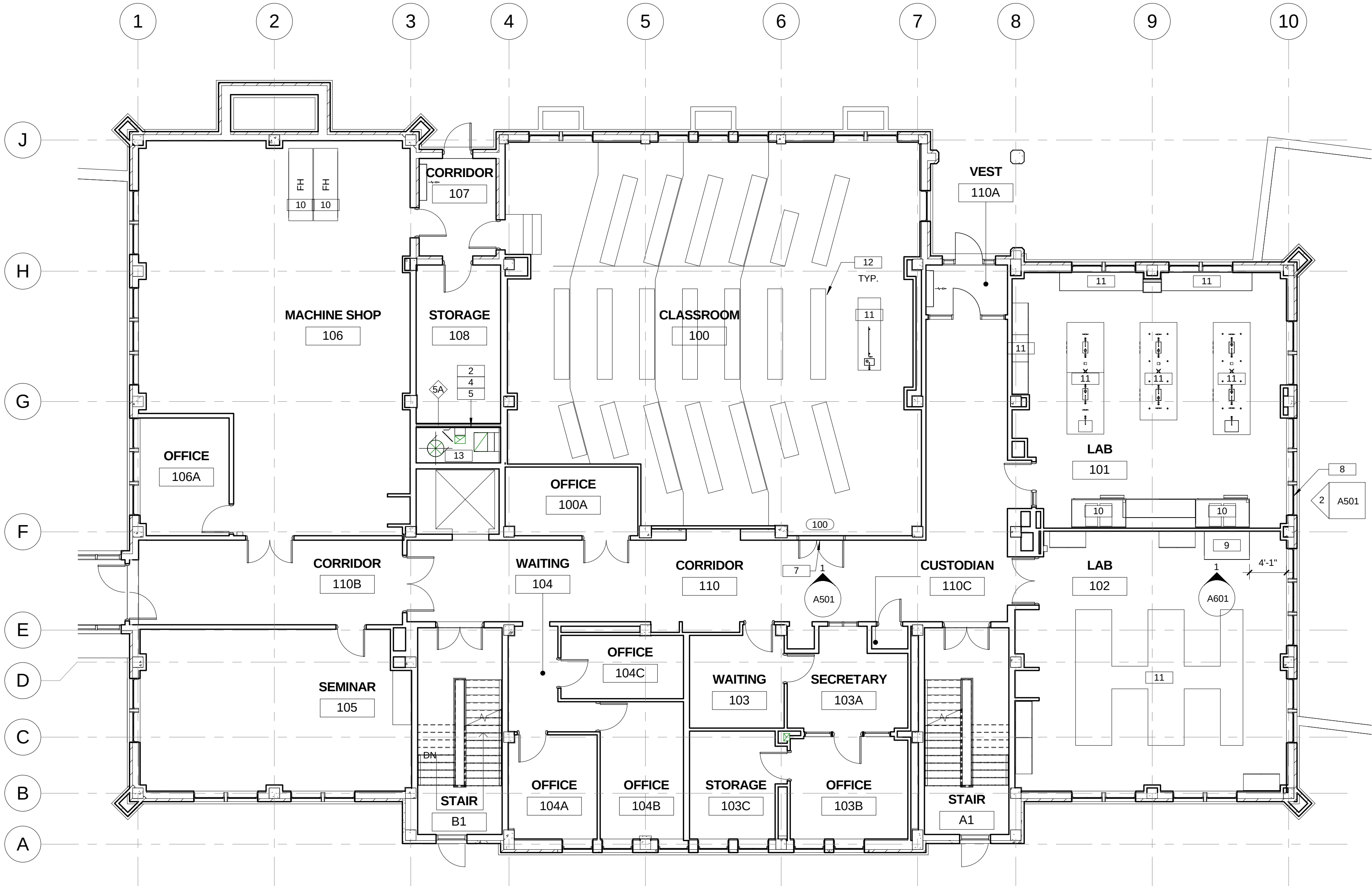
FLOOR PLAN -
FIRST FLOOR

A201

GENERAL NOTES - FLOOR PLANS

- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- VERIFY DIMENSIONS AND EXISTING CONDITIONS IN FIELD.
- PATCH, FINISH AND PAINT EXISTING FLOORS, WALLS, CEILINGS AND TRIM IN AREAS OF NEW WORK TO MATCH EXISTING ADJACENT.

KEYNOTES - FLOOR PLANS	
Key Value	Keynote Text
1	REPAIR / REPLACE PORTION OF CMU WALL REMOVED TO COMPLETE NEW MEP WORK.
2	NEW 2-HOUR RATED GWB SHAFT WALL ASSEMBLY.
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4	NEW RESILIENT BASE THIS WALL TO MATCH EXISTING ADJACENT.
5	PATCH VCT FLOORING IN AREA OF NEW WALL.
6	INSTALL TRANSLUCENT FILM ON WINDOWS AT FUME HOOD: 3M "FASARA" OR APPROVED EQUAL - PROVIDE MFR'S FULL RANGE OF FROST / MATTE SAMPLES FOR SELECTION BY ARCHITECT.
7	NEW DOOR AND FRAME - SEE DETAIL ON SHEET A501.
8	REPLACE LOUVER IN GLAZING FRAME WITH INSULATED SPANDREL GLASS TO MATCH EXISTING - SEE WINDOW ELEVATION DETAIL SHEET A501.
9	NEW FUME HOOD AND BASE CABINETS.
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12	FIXED DESK TO REMAIN.
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1 | FLOOR PLAN - FIRST FLOOR
1/8" = 1'-0"





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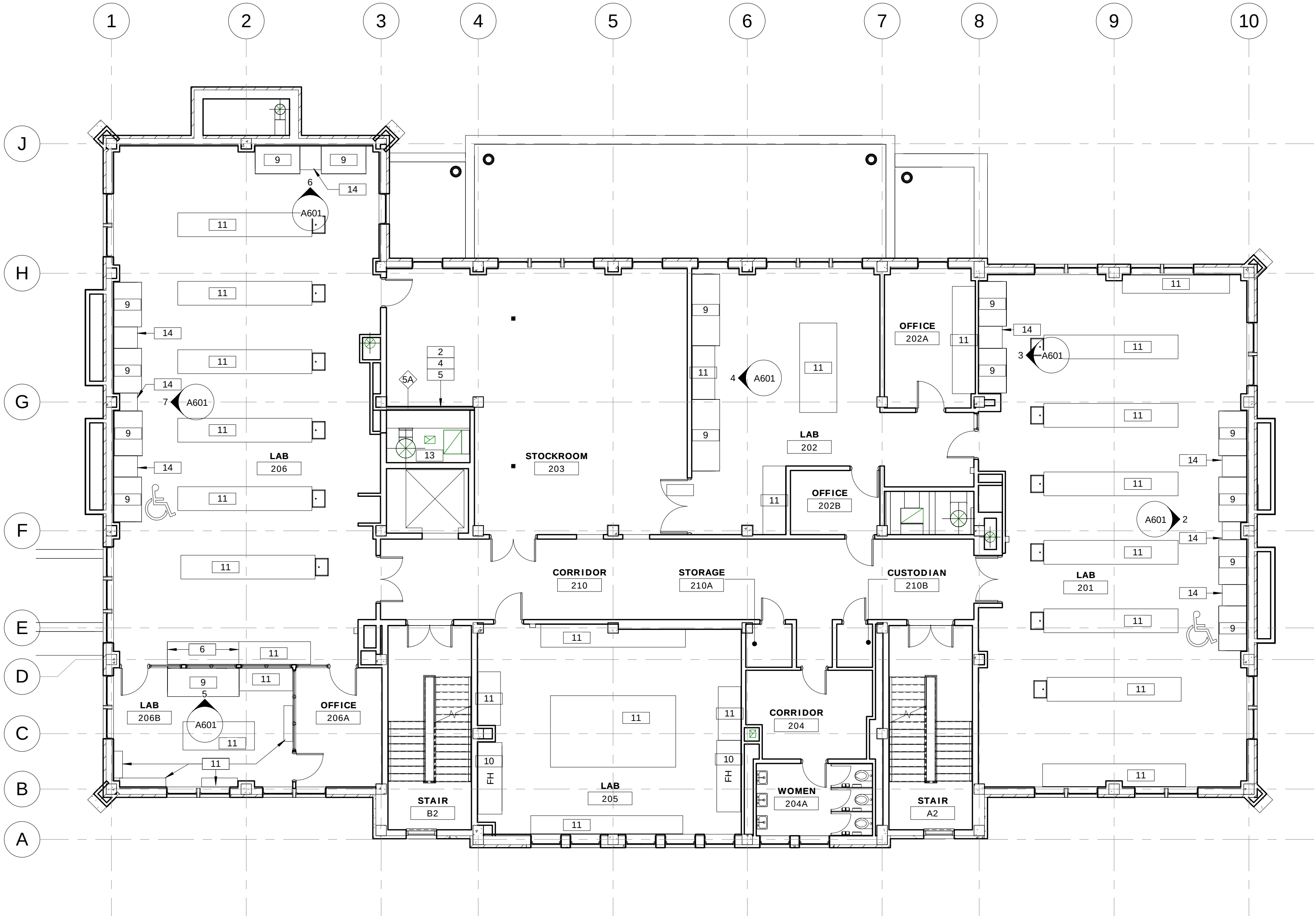
FLOOR PLAN -
SECOND FLOOR

A202

GENERAL NOTES - FLOOR PLANS

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1 FLOOR PLAN - SECOND FLOOR
1/8" = 1'-0"





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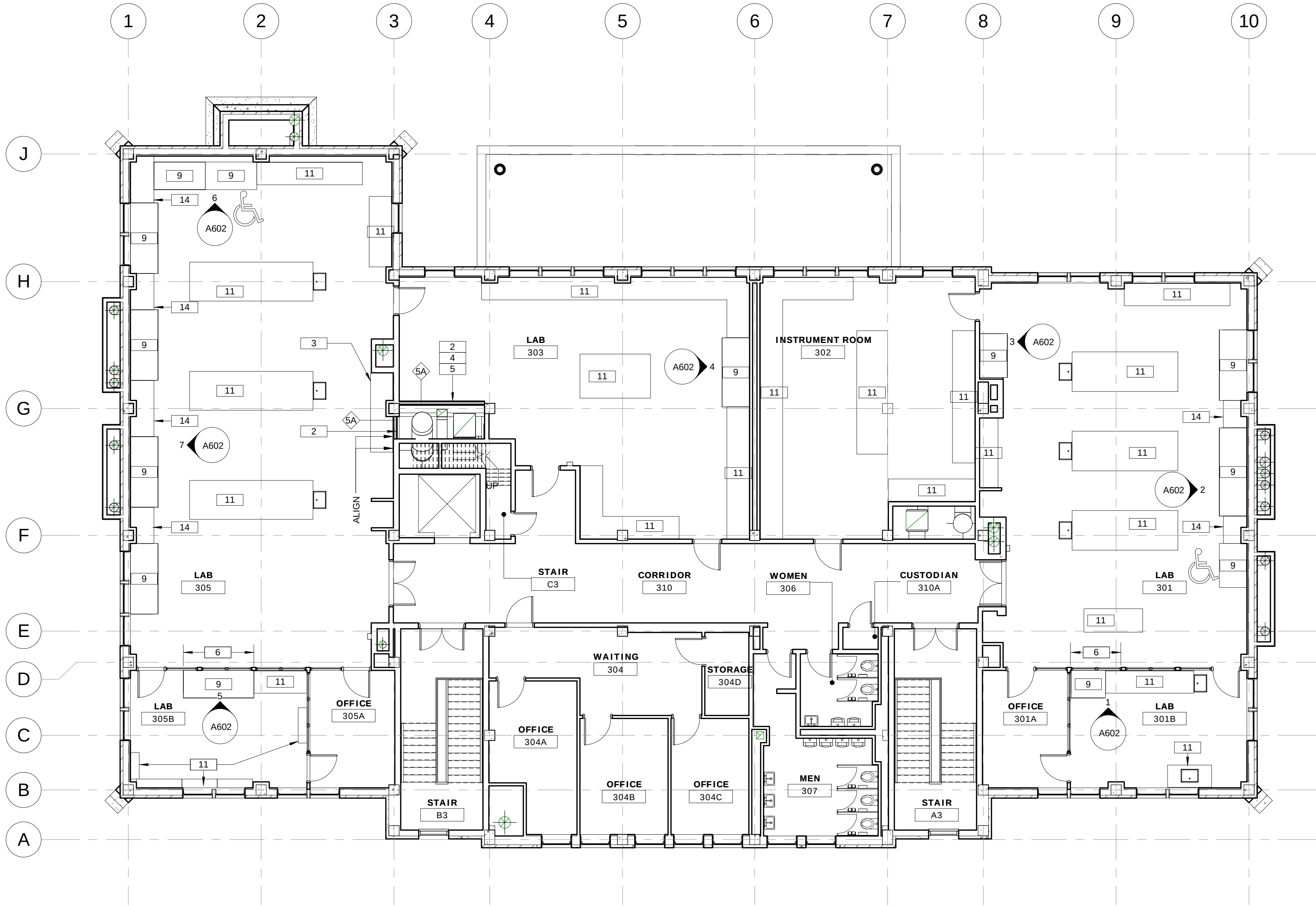
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GENERAL NOTES - FLOOR PLANS

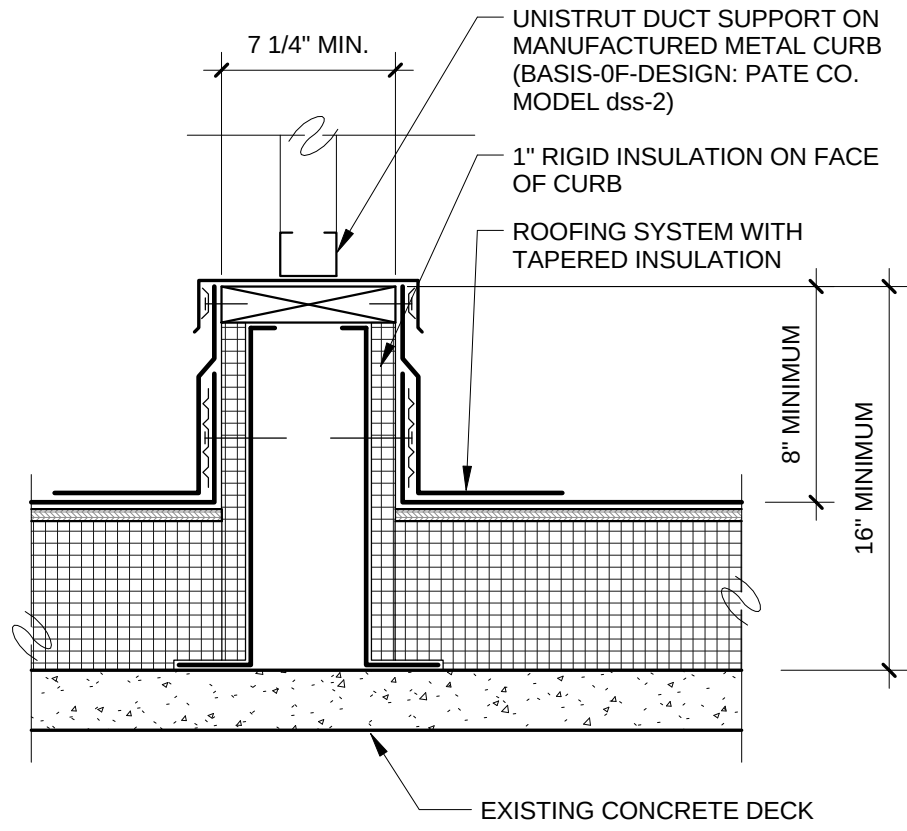
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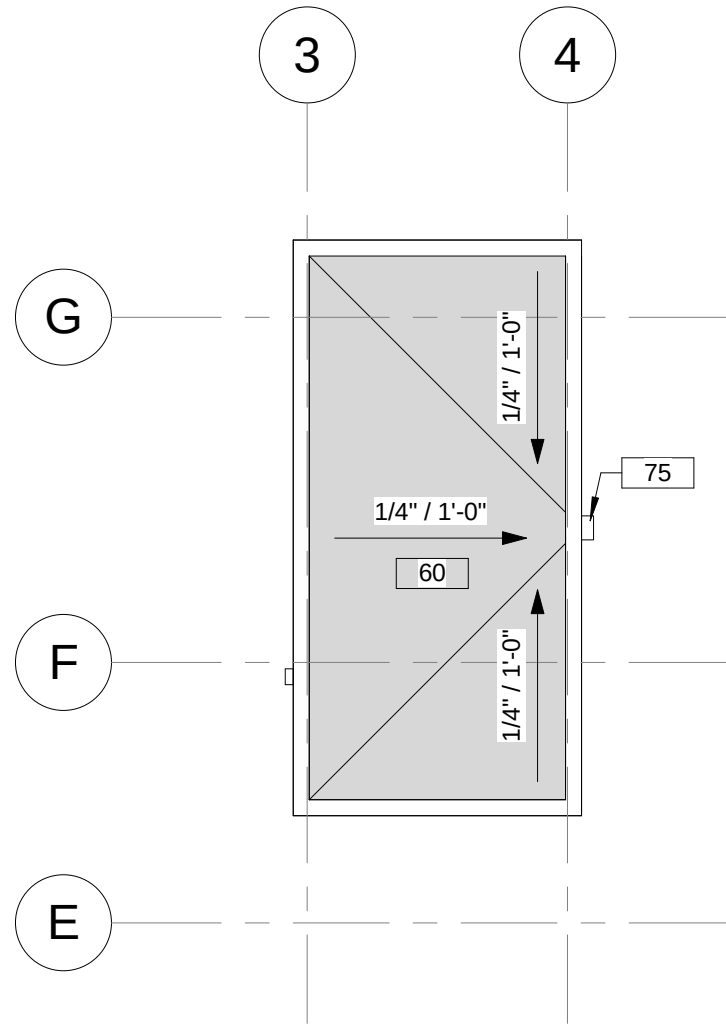


1 | FLOOR PLAN - THIRD FLOOR
1/8" = 1'-0"





3 TYPICAL DUCT SUPPORT CURB
1 1/2" = 1'-0"



2 FLOOR PLAN - PENTHOUSE ROOF
1/8" = 1'-0"

ROOF GENERAL NOTES:

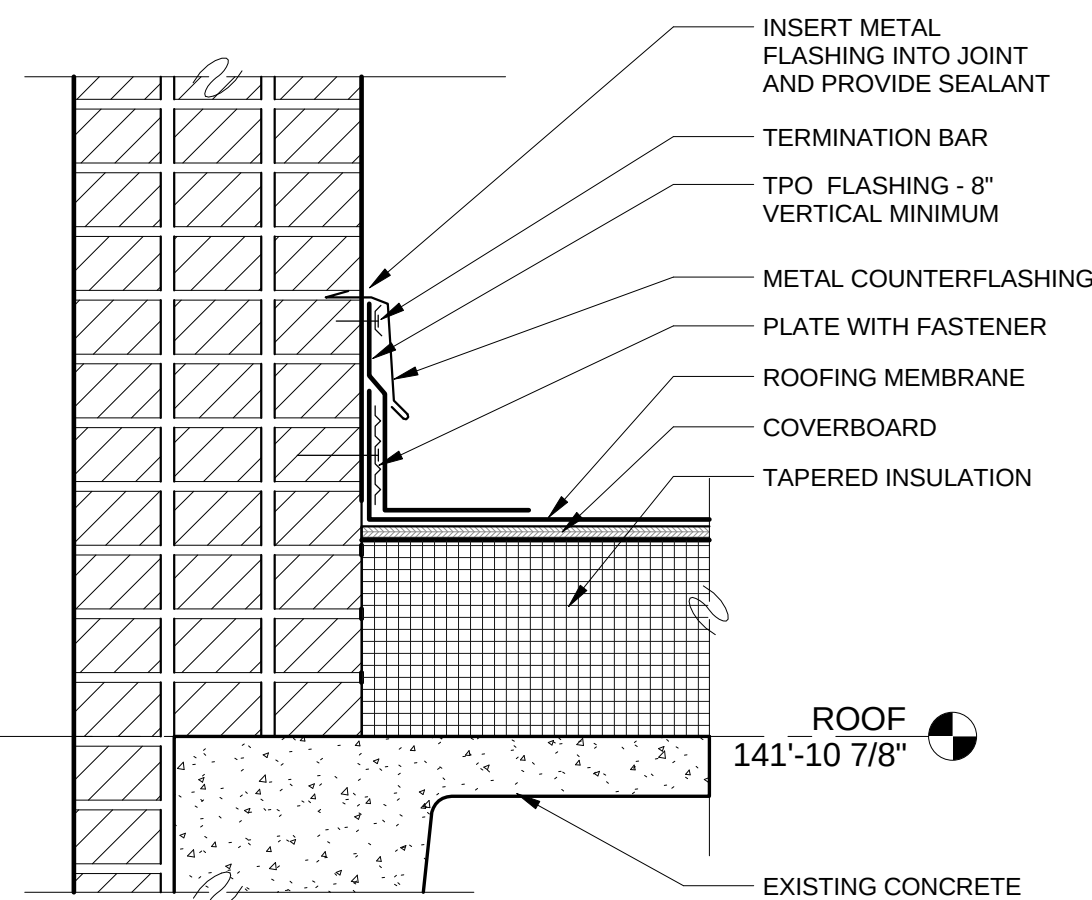
1. MINIMUM INSULATION THICKNESS SHALL ACHIEVE R-20 (AT LOW END OF TAPER.)
2. FIELD VERIFY THAT 1/4" PER FOOT SLOPE OF TAPERED INSULATION WILL ALLOW FOR ADEQUATE FLASHING HEIGHT (8" MIN.) USE 1/8" PER FOOT TAPERED INSULATION IF NECESSARY TO ACHIEVE NECESSARY HEIGHT.
3. REMOVE ROOF DRAINS. PROVIDE NEW DRAINS IN SAME LOCATIONS AS EXISTING.
4. REMOVE FLASHING AND METAL COUNTERFLASHING AT ROOF PERIMETER. PROVIDE PERIMETER FLASHING WITH METAL COUNTERFLASHING. SEE DETAIL 4/A204.
5. SUPPORT DUCTWORK ON METAL CURBS ATTACHED TO CONCRETE DECK. PROVIDE FLASHING AROUND CURB. SEE DETAIL 3/A204. SEE MECHANICAL DRAWINGS FOR DUCT SUPPORT LOCATIONS.
6. DETAIL 4/A204 SHOWS TYPICAL ROOF ASSEMBLY.
7. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES - ROOF

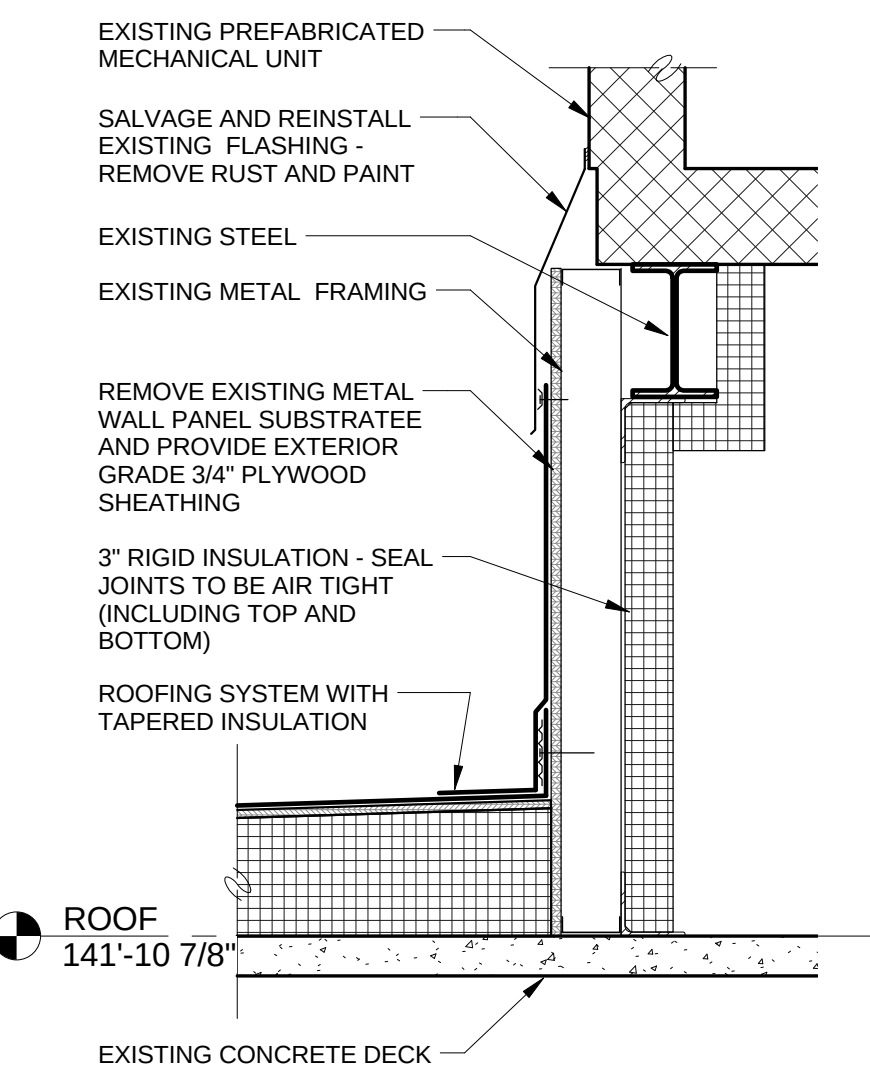
Key Value	Keynote Text
60	ROOFING SYSTEM ON EXISTING CONCRETE DECK: TAPERED INSULATION, COVER BOARD AND MEMBRANE ROOFING.
61	PLUMBING VENT - PROVIDE MEMBRANE FLASHING WITH METAL COLLAR.
62	DUCTWORK - SEE MECHANICAL DRAWINGS.
63	EXISTING PENETRATION WITH CONCRETE CURB. PROVIDE FLASHING AND METAL CAP WITH DUCT PENETRATION.
64	PAINT EXISTING STAIRS AND RAILING. PROVIDE FLASHING AT STAIR BASE SUPPORT.
65	PROVIDE FLASHING AT LOCATIONS WHERE EXISTING STEEL BRACE PENETRATES MEMBRANE.
66	PROVIDE 16" TALL INSULATED METAL CURB WITH FLASHING AND METAL CAP AT DUCT PENETRATION.
67	PROVIDE 16" TALL INSULATED METAL CURB WITH FLASHING UNDER MECHANICAL EQUIPMENT.
68	WALK PAD.
69	DOWNSPOUT WITH PRECAST CONCRETE SPLASH BLOCK.
70	MEMBRANE ROOFING WITH METAL EDGE FLASHING AT PERIMETER.
71	CRICKET WITH 1/2" PER FOOT SLOPE.
72	PENETRATION FOR POWER TO EXISTING AHU. PROVIDE POCKET WITH POURABLE SEALER.
73	INSTALL SALVAGED MECHANICAL EQUIPMENT AND DUCT ON INSULATED METAL CURBS WITH FLASHING AND METAL CAP.
74	PRE-ENGINEERED, OSHA-COMPLIANT, GALVANIZED, PAINTED STEEL STAIR - SEE NOTES THIS SHEET.
75	PROVIDE SCUPPER AND COLLECTOR BOX.
76	PROVIDE 24"x24" INSULATED, GALVANIZED STEEL ACCESS PANEL. PAINT ACCESS PANEL.

ACCESS STAIR:

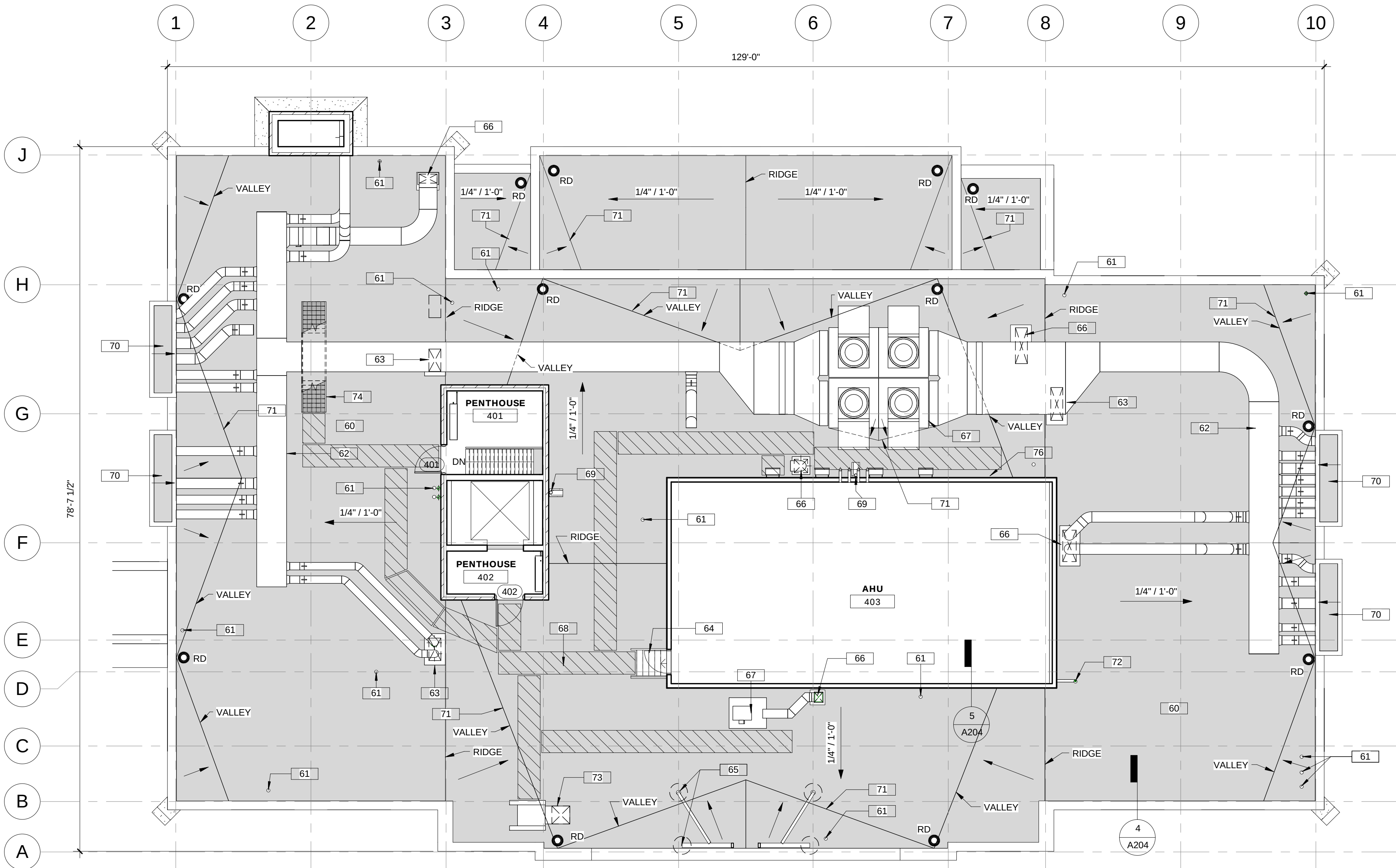
1. STAIR AND RAILINGS TO BE OSHA AND CURRENT OBC COMPLIANT.
2. STAIR TO BE MINIMUM WIDTH ALLOWED BY CODE AND OSHA STANDARDS.
3. LANDING TO BE AT MINIMUM HEIGHT REQUIRED TO CLEAR DUCTWORK - COORDINATE WITH MECHANICAL.
4. ALL STEEL TO BE GALVANIZED AND PAINTED.
5. PROVIDE RAILINGS BOTH SIDES OF STAIR.
6. PROVIDE CONCRETE CURBS A MINIMUM OF 8" HIGH ABOVE ROOFING AND EXTENDING TO STRUCTURAL DECK FOR ATTACHMENT OF STRINGERS AND POSTS (IF ANY.)
7. SUBMIT FOR REVIEW BY ARCHITECT / ENGINEER, SHOP DRAWINGS OF STAIR AND RAILINGS BEARING THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF OHIO WHO IS PROVIDING SERVICES AS A SPECIALTY ENGINEER.



4 ROOF FLASHING AT PARAPET WALL
1 1/2" = 1'-0"



5 ROOF FLASHING AT EXIST AHU
1" = 1'-0"



1 ROOF PLAN
1/8" = 1'-0"



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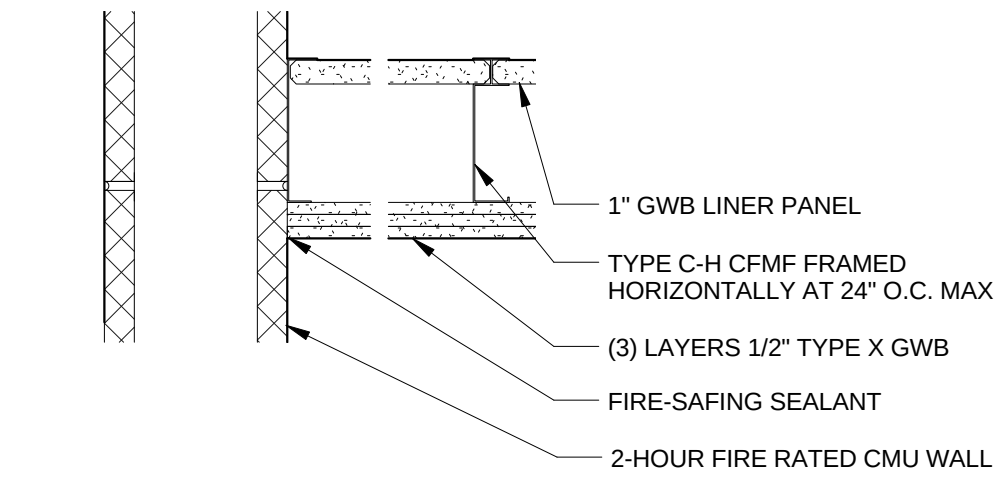
DWG TITLE
ROOF PLAN

SHEET NO.
A204

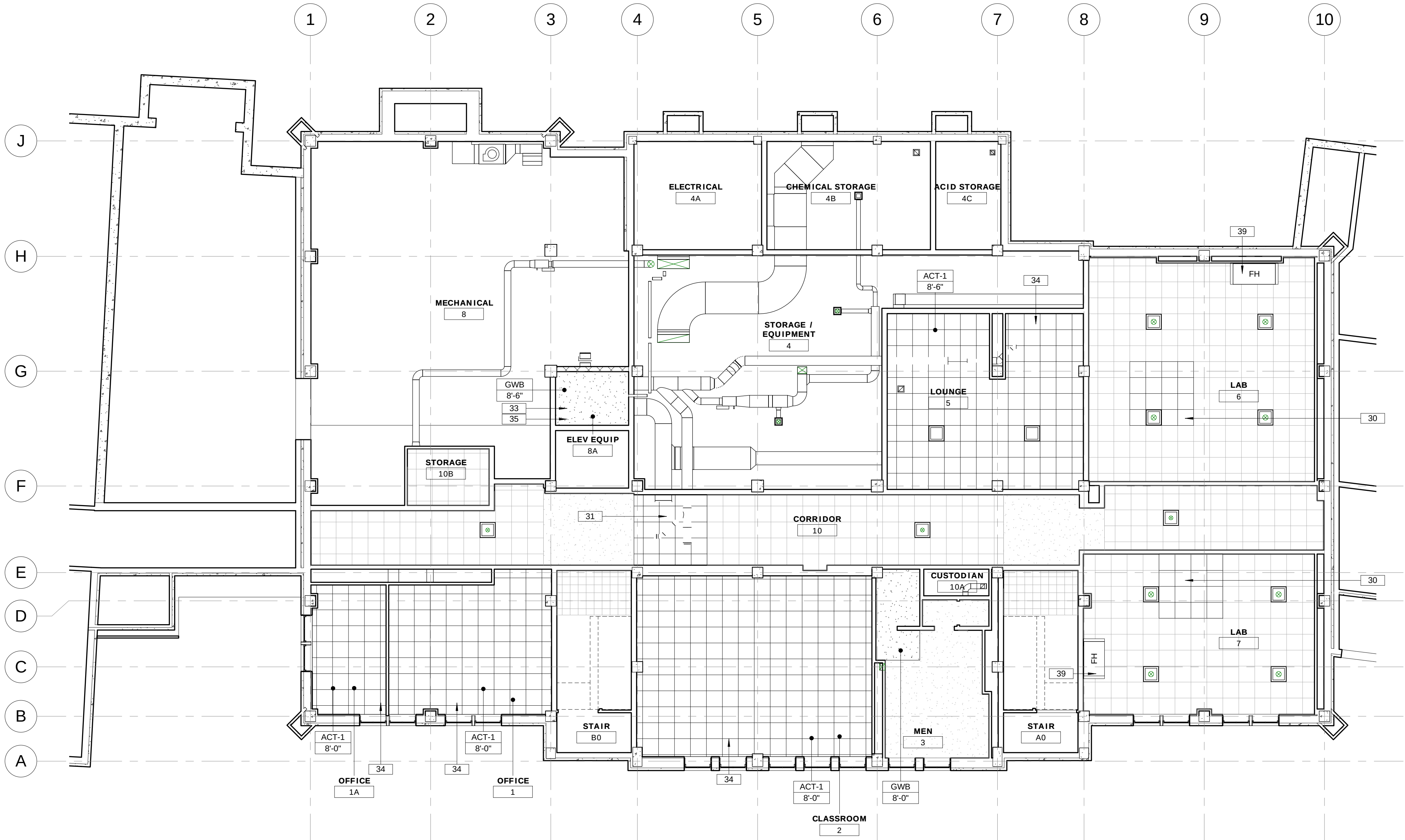
GENERAL NOTES - CEILING PLANS

- 1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 2. VERIFY DIMENSIONS AND EXISTING CONDITIONS IN FIELD.
- 3. NEW ACOUSTICAL TILE CEILINGS TO BE INSTALLED AT SAME HEIGHT AND IN SAME GRID LAYOUT AS EXISTING REMOVED.
- 4. AREAS OF PARTIAL CEILING REPLACEMENT ARE APPROXIMATE. ACTUAL AREAS WILL BE AS REQUIRED TO ACCOMPLISH NEW MEP WORK.
- 5. IN AREAS OF PARTIAL ACOUSTICAL TILE SUSPENSION GRID REPLACEMENT, NEW GRID AND TILES ARE TO MATCH EXISTING ADJACENT.
- 6. NOTE THAT MOST EXISTING ACOUSTICAL CEILINGS TILES AND GRIDS ARE NOMINALLY 24" X 48" SCORED TO APPEAR AS 24" X 24".
- 7. EXISTING CEILINGS ARE SHOWN HALF-TONE (LIGHT GREY). NEW CEILINGS ARE SHOWN DARK.

KEYNOTES - CEILINGS	
Key Value	Keynote Text
30	REINSTALL EXISTING OR SALVAGED ACOUSTICAL CEILING TILE TO MATCH EXISTING ADJACENT.
31	INSTALL NEW SUSPENSION GRID TO MATCH EXISTING ADJACENT AND REINSTALL EXISTING OR SALVAGED ACOUSTICAL CEILING TILE TO MATCH EXISTING ADJACENT.
32	REWORK EXISTING ACOUSTICAL GRID AND TILE AT NEW FUME HOOD CLOSURE AS REQUIRED FOR FINISHED APPEARANCE.
33	2-HOUR FIRE PROTECTION RATED GWB CEILING ASSEMBLY - SEE DETAIL 2/A220.
34	NEW ACOUSTICAL CEILING TILE AND SUSPENSION GRID.
35	NEW GWB CEILING AND SUSPENSION SYSTEM.
36	NEW SNORKEL EXHAUST HOOD (SEE MECHANICAL) - VERIFY EXACT LOCATION.
37	NEW FUME HOOD WITH CEILING CLOSURE - CLOSURE EXTENDS ABOVE CEILING.
38	EXISTING FUME HOOD WITH CEILING CLOSURE.
39	EXISTING FUME HOOD WITHOUT CEILING CLOSURE - CEILING CONTINUES OVER HOOD.



2 | SECTION DETAIL - 2-HOUR FIRE RATED CEILING
1 1/2" = 1'-0"



1 | REFLECTED CEILING PLAN - LOWER LEVEL
1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



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SHEET REVISION

REV #	DATE	DESCRIPTION
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ISSUE

DATE	DESCRIPTION
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DWG TITLE

REFLECTED
CEILING PLAN -
LOWER LEVEL

SHEET NO.

A220



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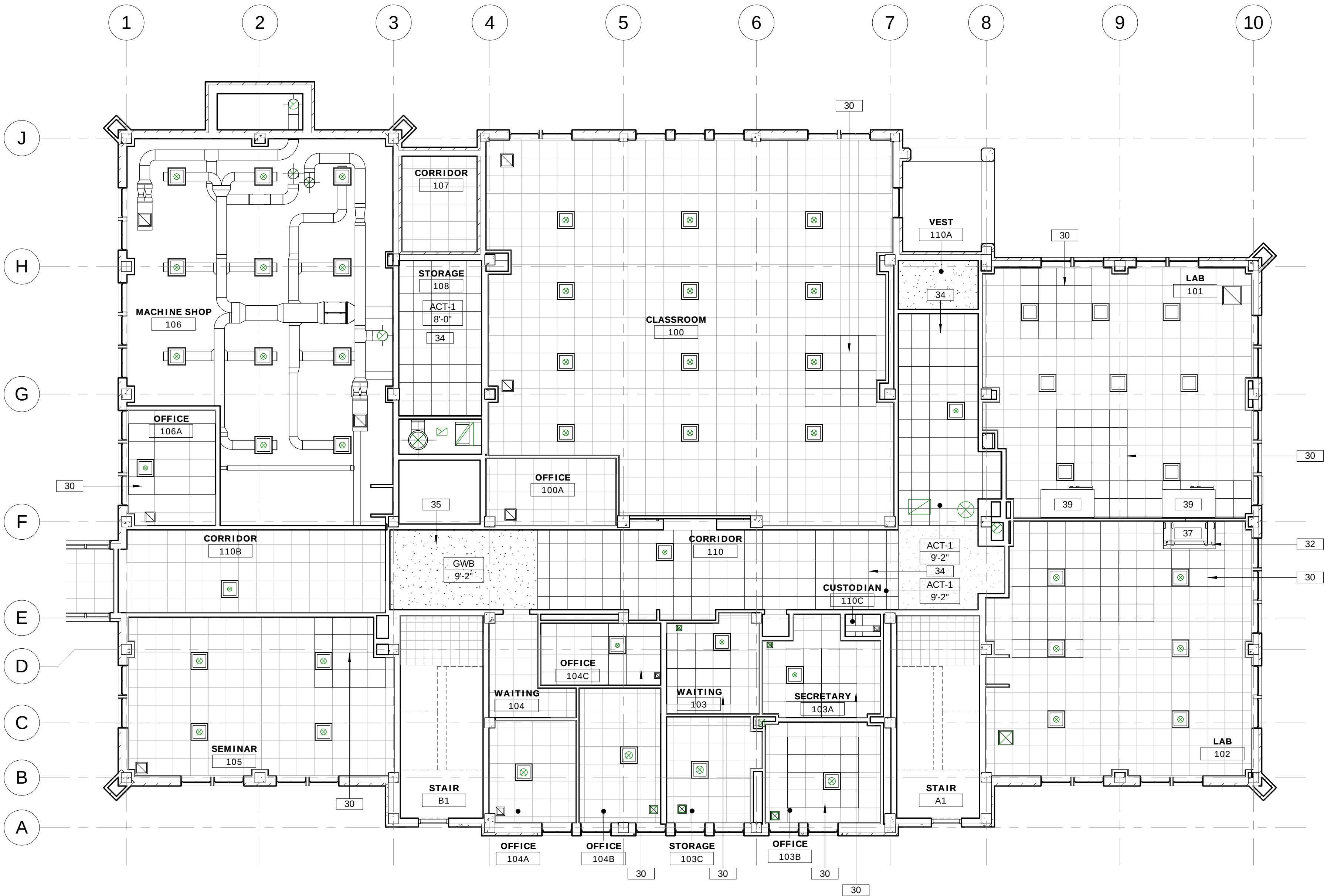
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GENERAL NOTES - CEILING PLANS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
2. VERIFY DIMENSIONS AND EXISTING CONDITIONS IN FIELD.
3. NEW ACOUSTICAL TILE CEILINGS TO BE INSTALLED AT SAME HEIGHT AND IN SAME GRID LAYOUT AS EXISTING REMOVED.
4. AREAS OF PARTIAL CEILING REPLACEMENT ARE APPROXIMATE. ACTUAL AREAS WILL BE AS REQUIRED TO ACCOMPLISH NEW MEP WORK.
5. IN AREAS OF PARTIAL ACOUSTICAL TILE SUSPENSION GRID REPLACEMENT, NEW GRID AND TILES ARE TO MATCH EXISTING ADJACENT.
6. NOTE THAT MOST EXISTING ACOUSTICAL CEILINGS TILES AND GRIDS ARE NOMINALLY 24" X 48" SCORED TO APPEAR AS 24" X 24".
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KEYNOTES - CEILINGS	
Key Value	Keynote Text
30	REINSTALL EXISTING OR SALVAGED ACOUSTICAL CEILING TILE TO MATCH EXISTING ADJACENT.
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32	REWORK EXISTING ACOUSTICAL GRID AND TILE AT NEW FUME HOOD CLOSURE AS REQUIRED FOR FINISHED APPEARANCE.
33	2-HOUR FIRE PROTECTION RATED GWB CEILING ASSEMBLY - SEE DETAIL 2/A220.
34	NEW ACOUSTICAL CEILING TILE AND SUSPENSION GRID.
35	NEW GWB CEILING AND SUSPENSION SYSTEM.
36	NEW SNORKEL EXHAUST HOOD (SEE MECHANICAL) - VERIFY EXACT LOCATION.
37	NEW FUME HOOD WITH CEILING CLOSURE - CLOSURE EXTENDS ABOVE CEILING.
38	EXISTING FUME HOOD WITH CEILING CLOSURE.
39	EXISTING FUME HOOD WITHOUT CEILING CLOSURE - CEILING CONTINUES OVER HOOD.



1 REFLECTED CEILING PLAN - FIRST FLOOR
1/8" = 1'-0"





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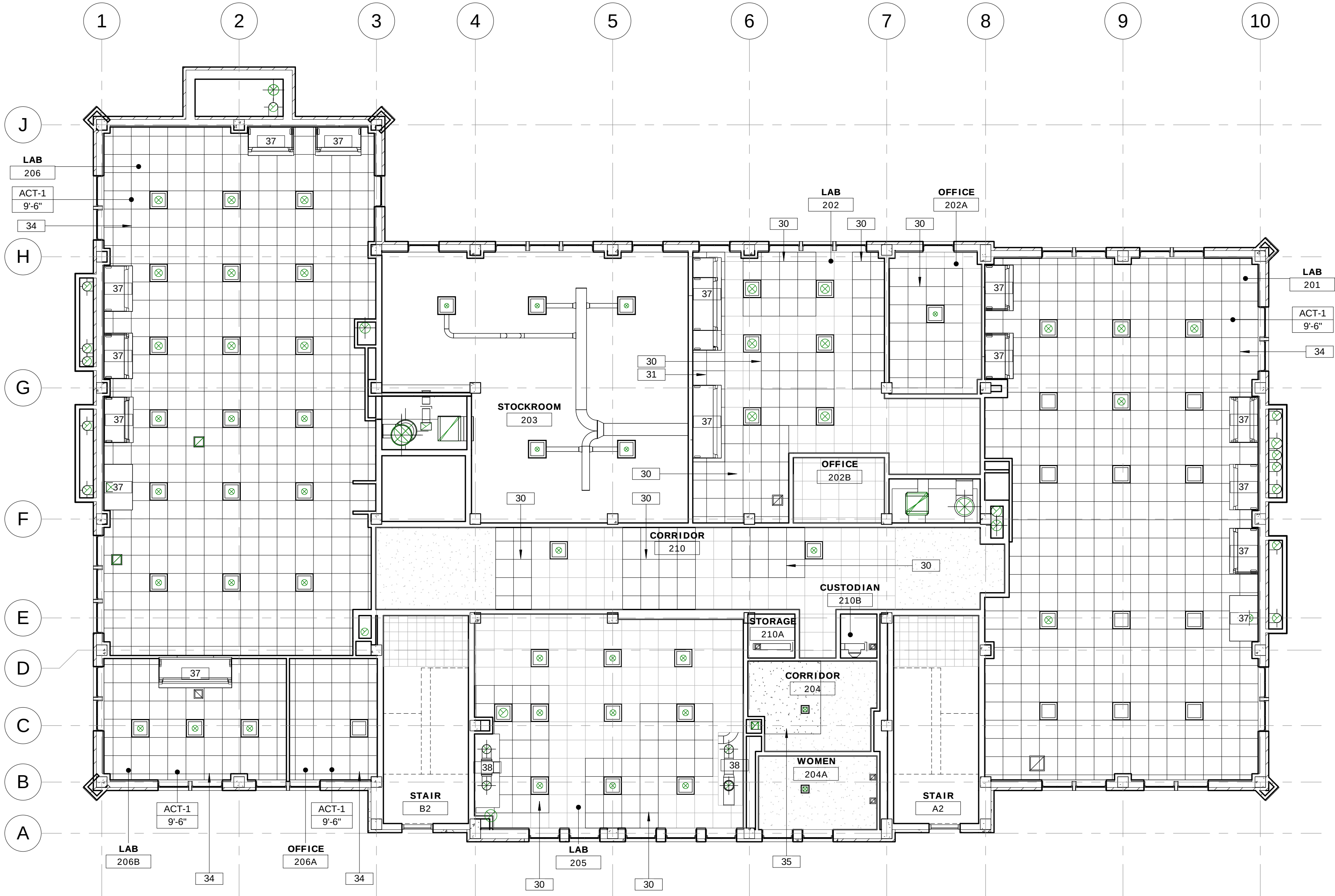
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GENERAL NOTES - CEILING PLANS

- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
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35	NEW GWB CEILING AND SUSPENSION SYSTEM.
36	NEW SNORKEL EXHAUST HOOD (SEE MECHANICAL) - VERIFY EXACT LOCATION.
37	NEW FUME HOOD WITH CEILING CLOSURE - CLOSURE EXTENDS ABOVE CEILING.
38	EXISTING FUME HOOD WITH CEILING CLOSURE.
39	EXISTING FUME HOOD WITHOUT CEILING CLOSURE - CEILING CONTINUES OVER HOOD.



1 REFLECTED CEILING PLAN - SECOND FLOOR
1/8" = 1'-0"





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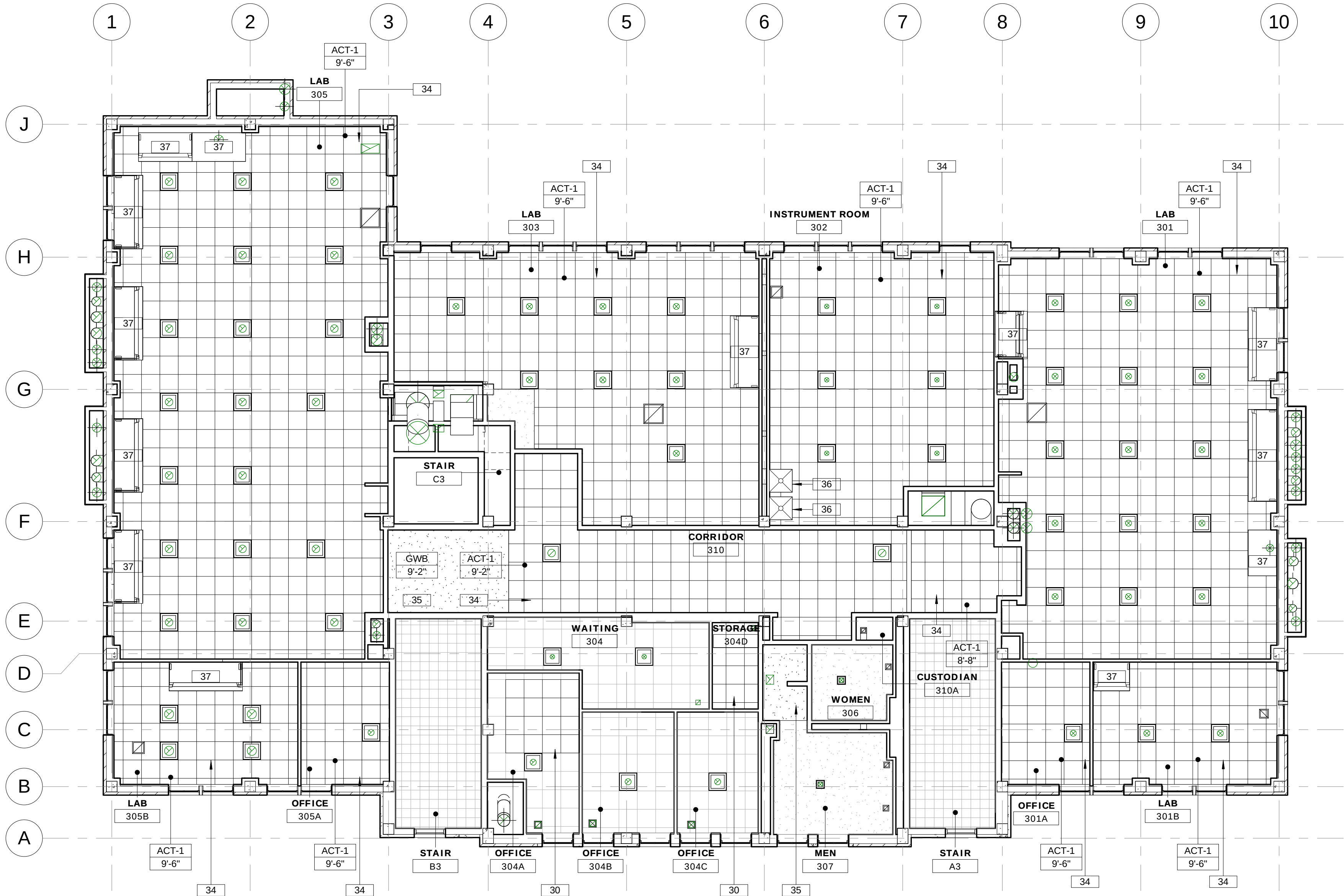
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GENERAL NOTES - CEILING PLANS

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KEYNOTES - CEILINGS

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32	REWORK EXISTING ACOUSTICAL GRID AND TILE AT NEW FUME HOOD CLOSURE AS REQUIRED FOR FINISHED APPEARANCE.
33	2-HOUR FIRE PROTECTION RATED GWB CEILING ASSEMBLY - SEE DETAIL 2/A220.
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35	NEW GWB CEILING AND SUSPENSION SYSTEM.
36	NEW SNORKEL EXHAUST HOOD (SEE MECHANICAL) - VERIFY EXACT LOCATION.
37	NEW FUME HOOD WITH CEILING CLOSURE - CLOSURE EXTENDS ABOVE CEILING.
38	EXISTING FUME HOOD WITH CEILING CLOSURE.
39	EXISTING FUME HOOD WITHOUT CEILING CLOSURE - CEILING CONTINUES OVER HOOD.



1 REFLECTED CEILING PLAN - THIRD FLOOR
1/8" = 1'-0"



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SHEET REVISION		
REV #	DATE	DESCRIPTION

DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

SCHEDULES,
DETAILS

A501

ROOM FINISH SCHEDULE										
w	Number	Name	Floor Finish	Base	Wall Finish East	Wall Finish North	Wall Finish South	Wall Finish West	Ceiling Finish	Comments
LOWER LEVEL	1	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
LOWER LEVEL	1A	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
LOWER LEVEL	2	CLASSROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
LOWER LEVEL	5	LOUNGE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
LOWER LEVEL	8A	ELEV EQUIP	EXISTING	NONE	EXISTING	PAINT	EXISTING	EXISTING	GWB	2-HR RATED CEILING
FIRST FLOOR	100	CLASSROOM	CPT	RB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
FIRST FLOOR	110	CORRIDOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1 / GWB	
SECOND FLOOR	201	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
SECOND FLOOR	206	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
SECOND FLOOR	206A	OFFICE	CPT	RB	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
SECOND FLOOR	206B	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
THIRD FLOOR	301	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
THIRD FLOOR	301A	OFFICE	CPT	RB	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
THIRD FLOOR	301B	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
THIRD FLOOR	302	INSTRUMENT ROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
THIRD FLOOR	303	LAB	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
THIRD FLOOR	305	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
THIRD FLOOR	305A	OFFICE	CPT	RB	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	
THIRD FLOOR	305B	LAB	SV	SV	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1	SEE NOTES 2 AND 3 BELOW
THIRD FLOOR	310	CORRIDOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1 / GWB	

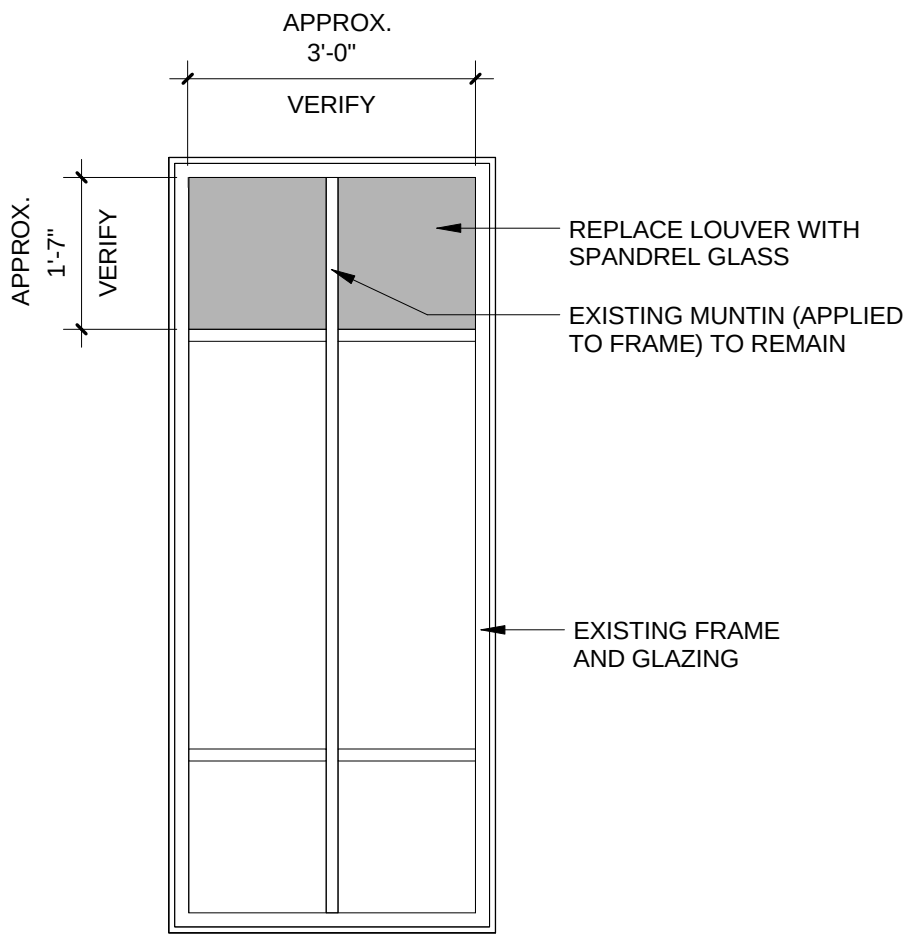
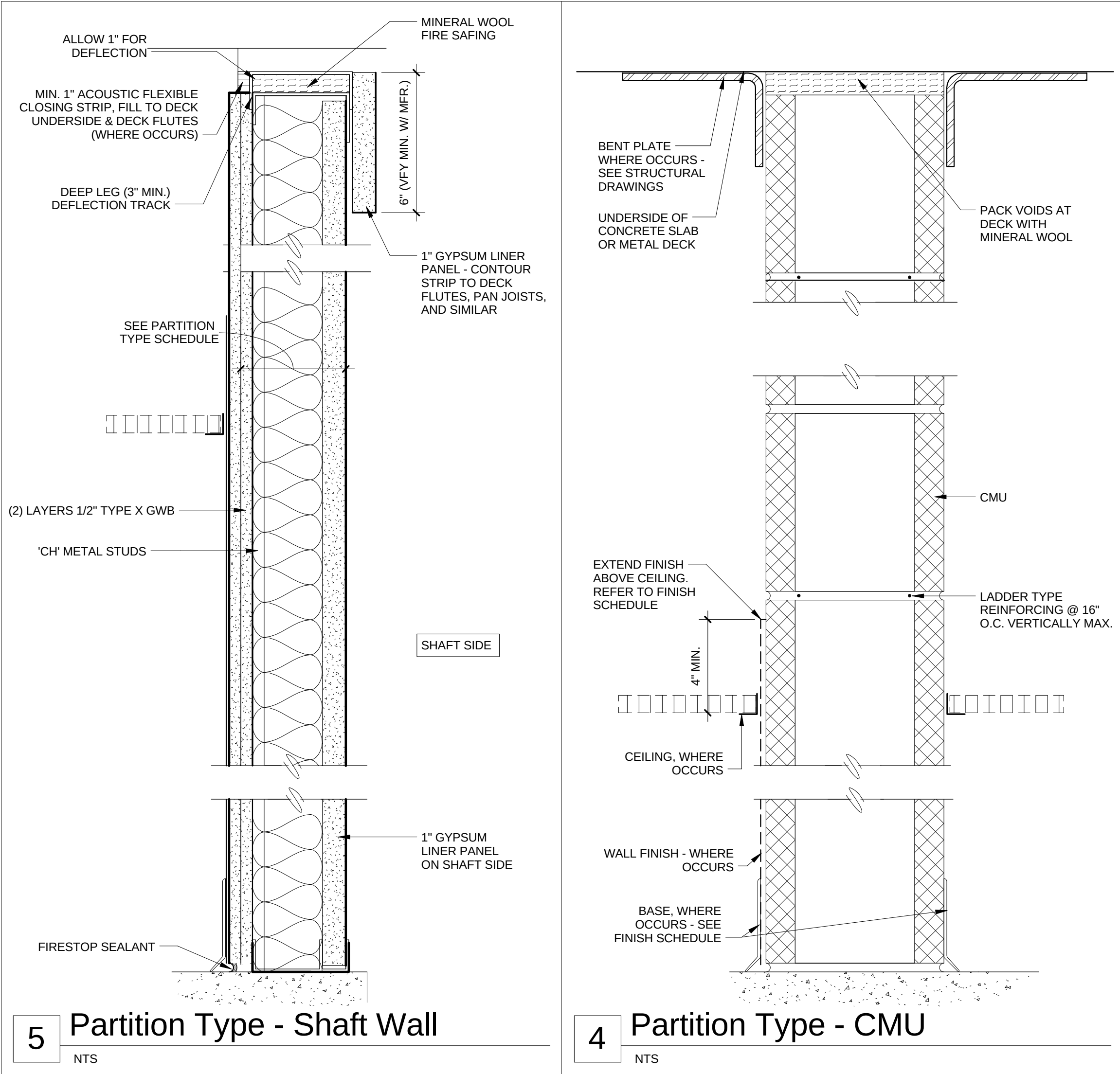
NOTES:

- ROOMS NOT LISTED IN ROOM FINISH SCHEDULE ARE ASSUMED TO RECEIVE NO NEW FINISHES OTHER THAN THOSE REQUIRED FOR PATCHING OR REPLACEMENT ASSOCIATED WITH NEW MEP OR STRUCTURAL WORK.
- INTERGRAL SHEET VINYL BASE TO EXTEND UP TO FULLY COVER EXISTING PRE-FACED BLOCK BASE - VERIFY EXACT HEIGHT IN FIELD.
- IN ROOMS RECEIVING NEW SHEET VINYL FLOORING, NEW AND EXISTING CASEWORK TO RECEIVE NEW SHEET VINYL COVE BASE TO MATCH FLOORING.

FINISHES ABBREVIATIONS

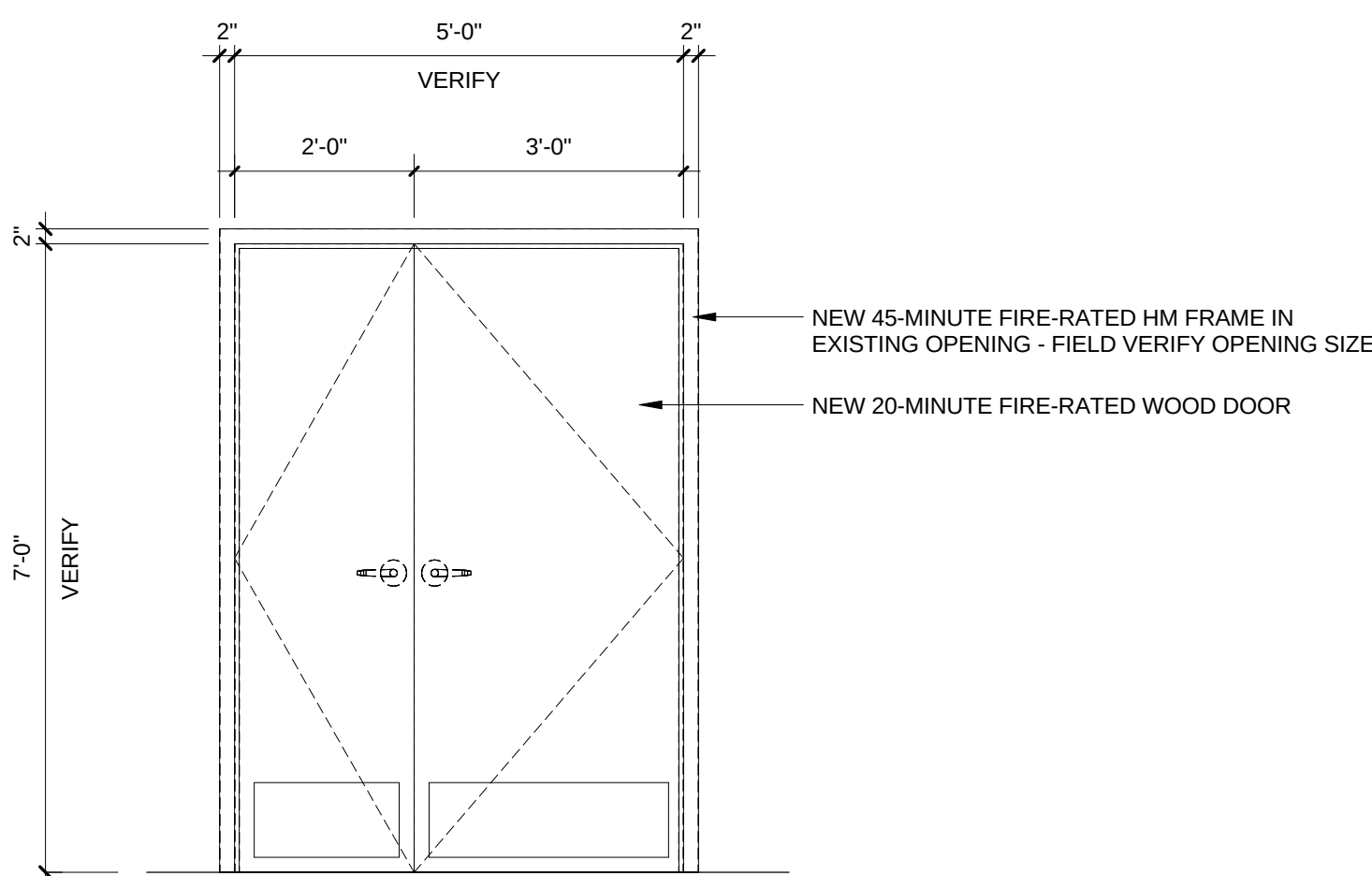
ACT ACOUSTICAL CEILING TILE
CPT CARPET
GWB GYPSUM WALL BOARD
RB RESILIENT BASE
SV SHEET VINYL

PARTITION TYPE SCHEDULE							
Type Mark	Partition Width	Stud Size	Stud Spacing	Stud Gauge	Sound Batt	Fire Rating	Notes
4G	7 5/8"	-	-	-	No	2-HR	
5A	5"	4" CH	16" O.C.	20 ga.	Yes	2-HR	UL DES. U415

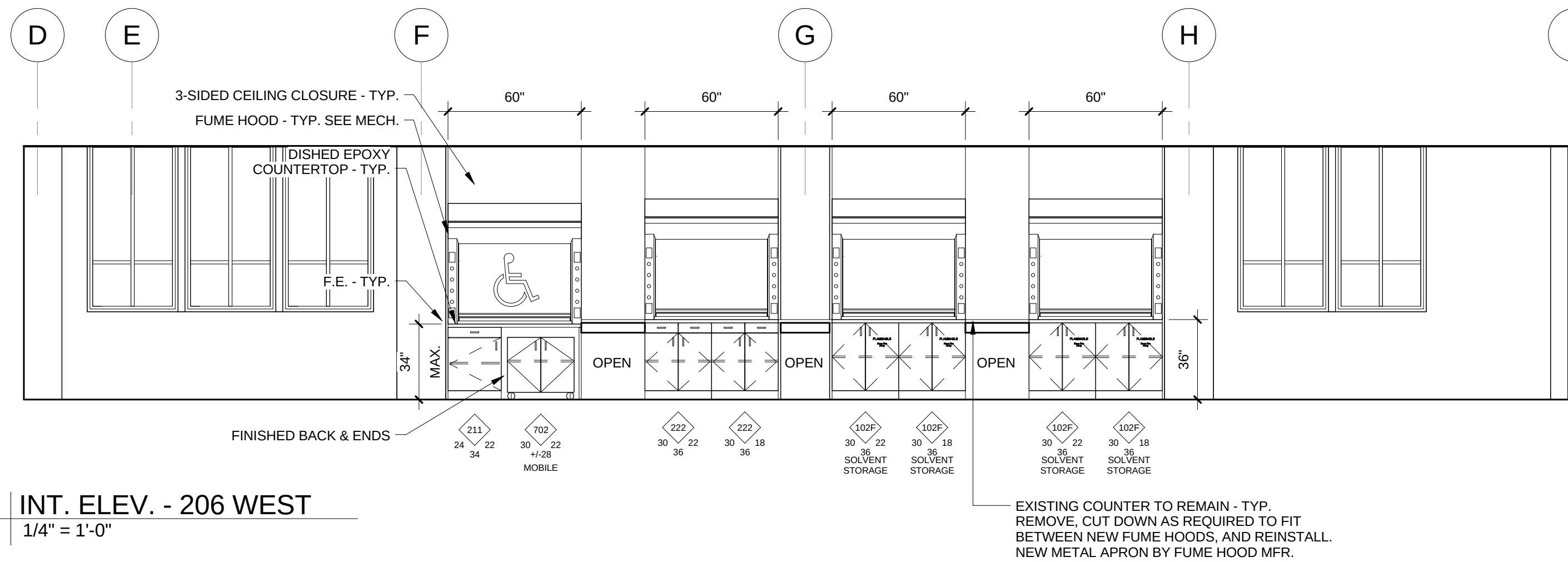


NOTE: AT "SIMILAR", MUNTIN DOES NOT EXIST AT UPPER LITE. ADD MUNTIN THIS LITE TO MATCH EXISTING.

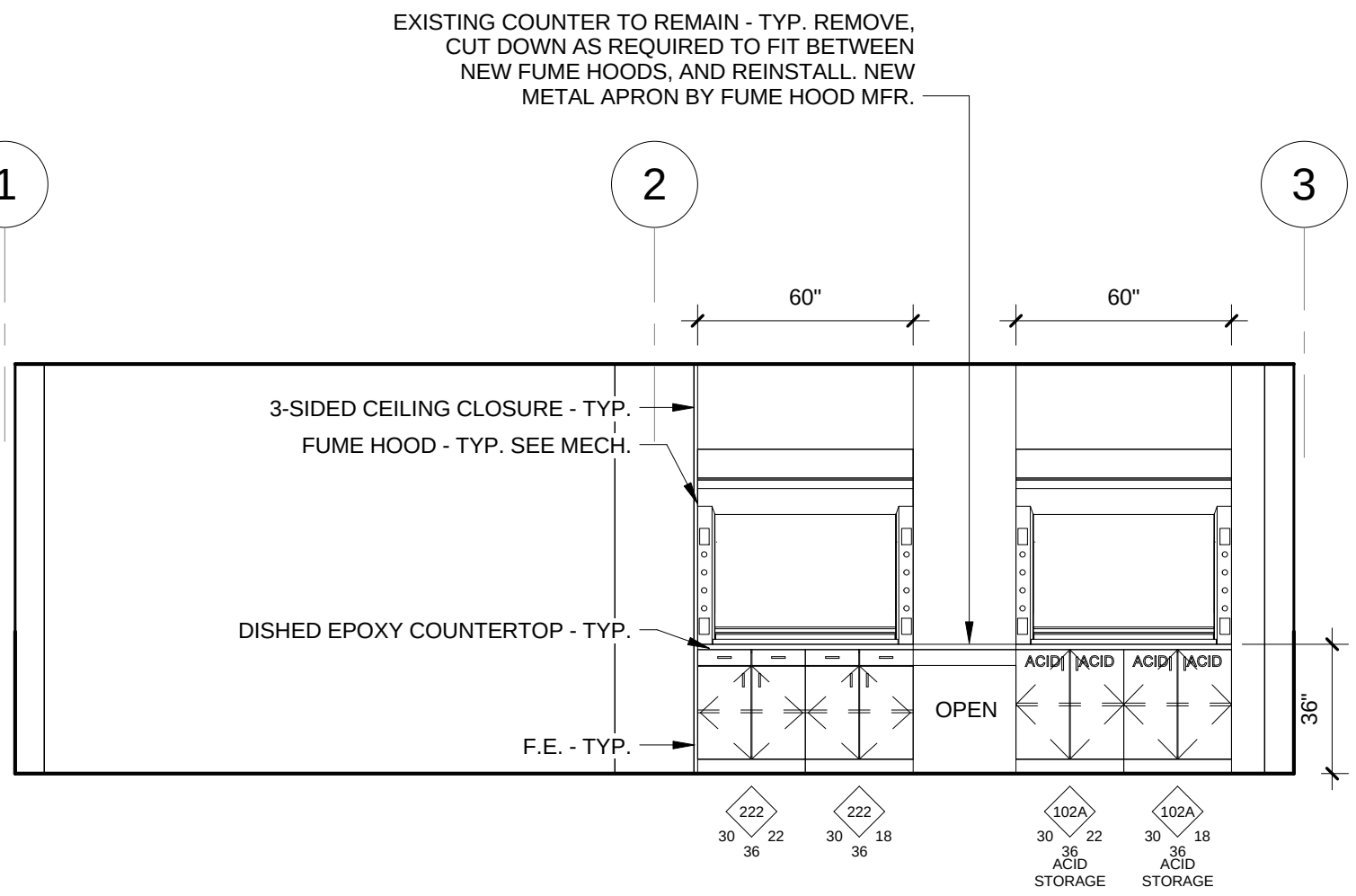
2 WINDOW ELEVATION
1/2" = 1'-0"



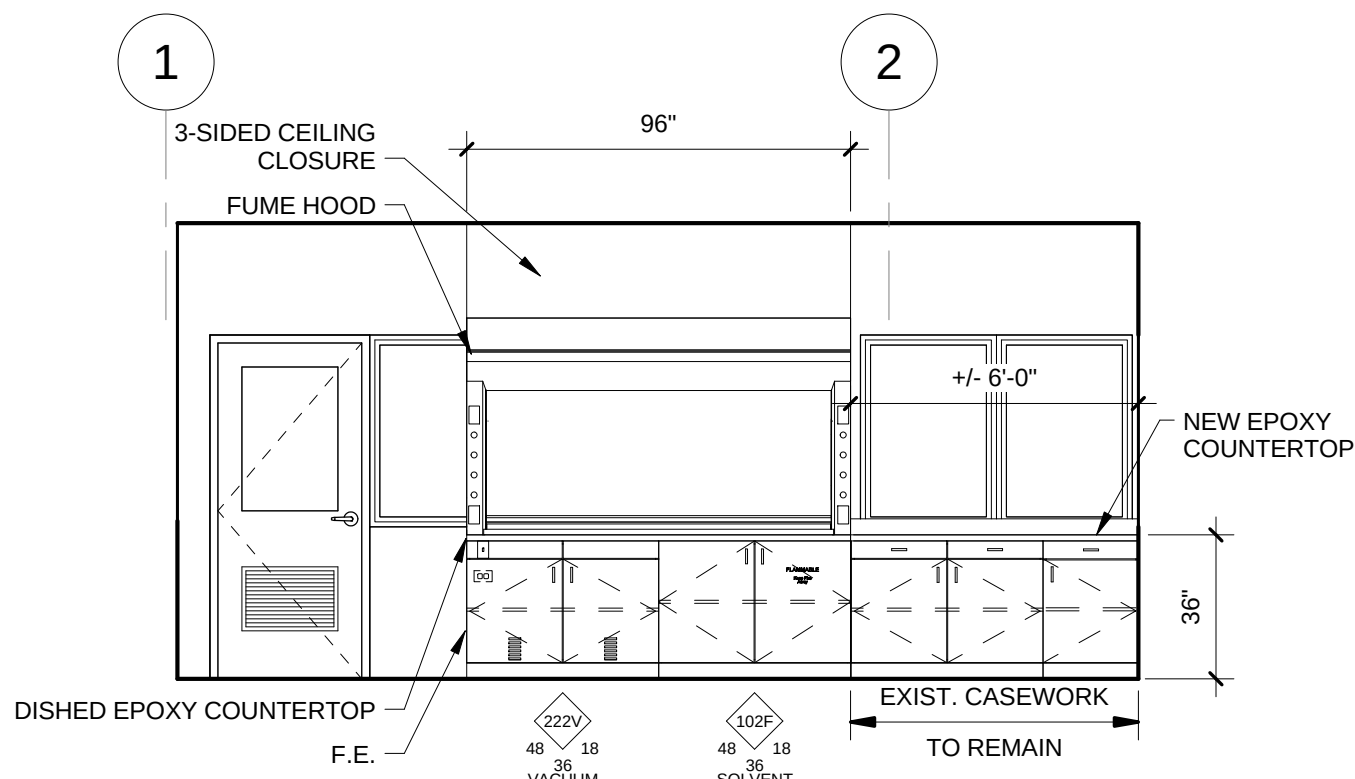
1 ELEVATION - DOOR NO. 100
1/2" = 1'-0"



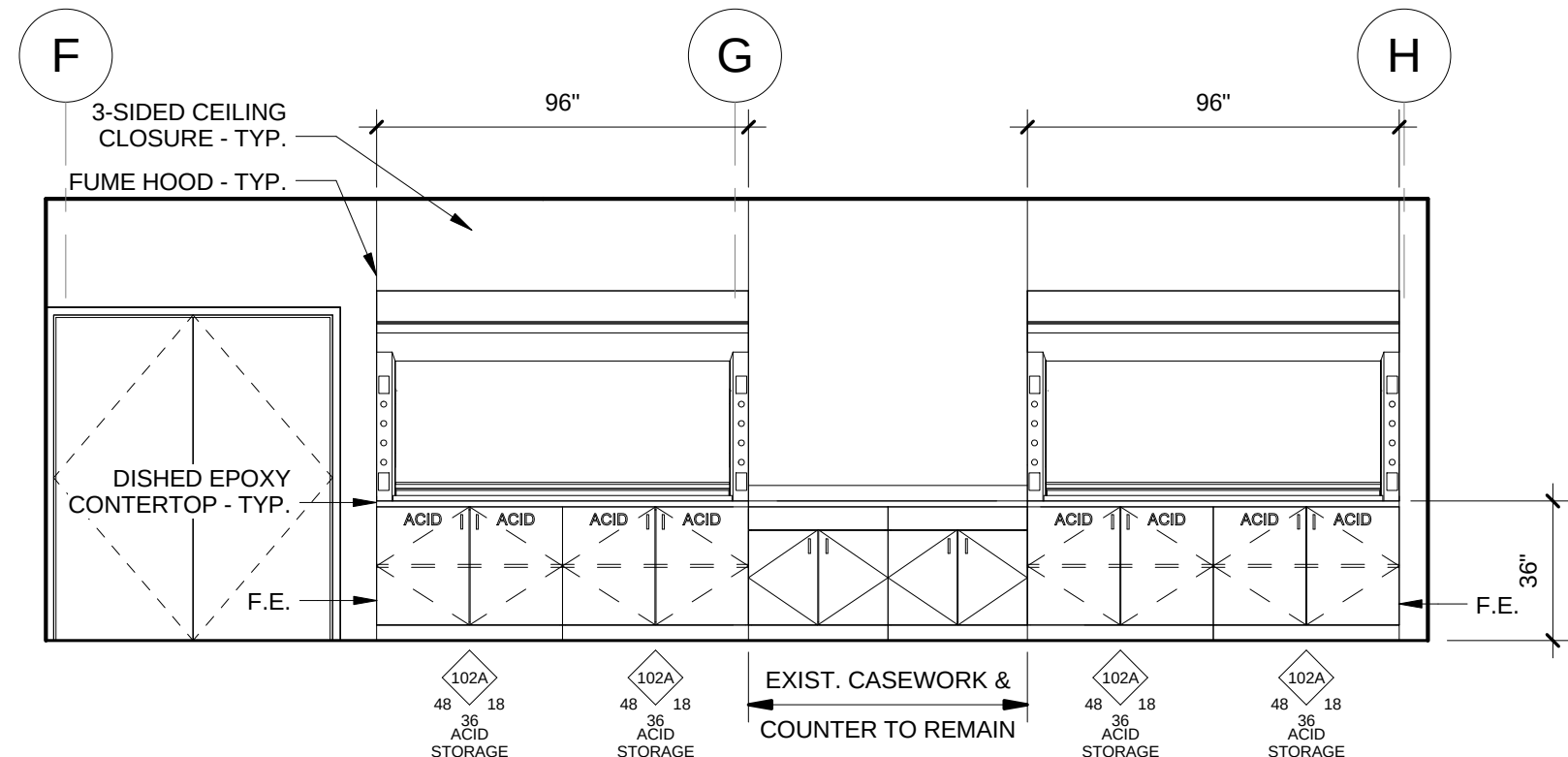
7 | INT. ELEV. - 206 WEST
1/4" = 1'-0"



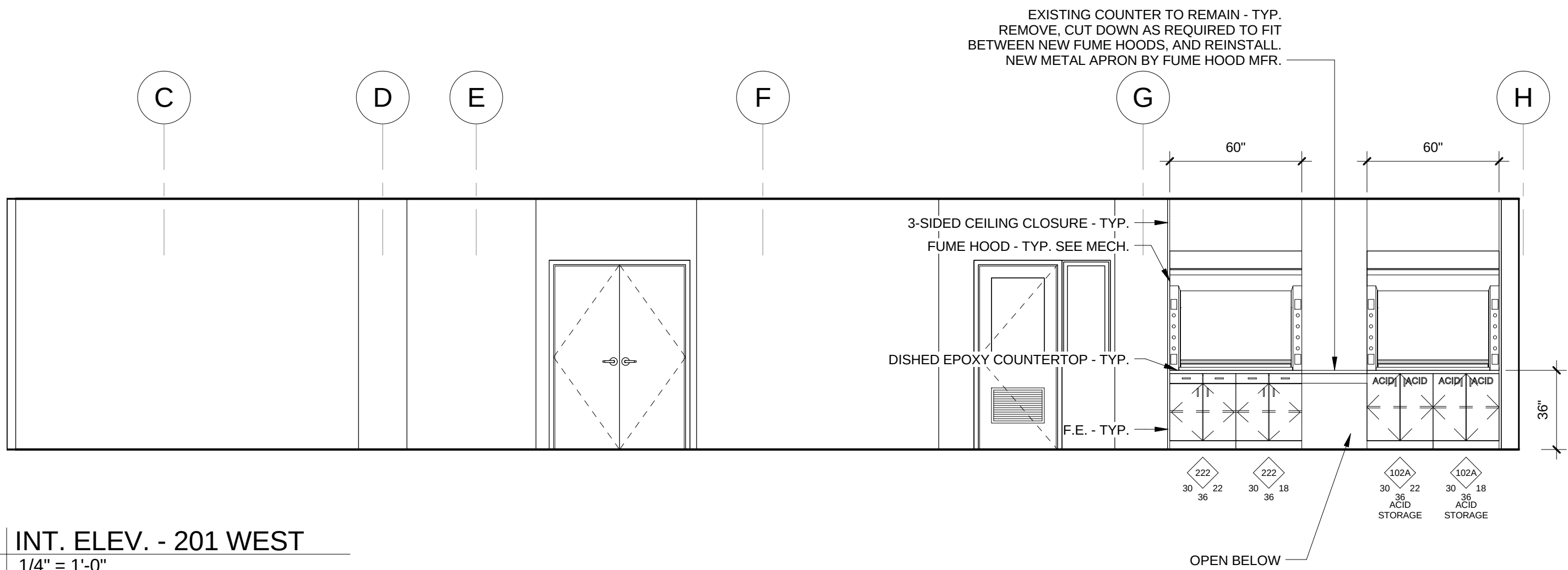
6 | INT. ELEV. - 206 NORTH
1/4" = 1'-0"



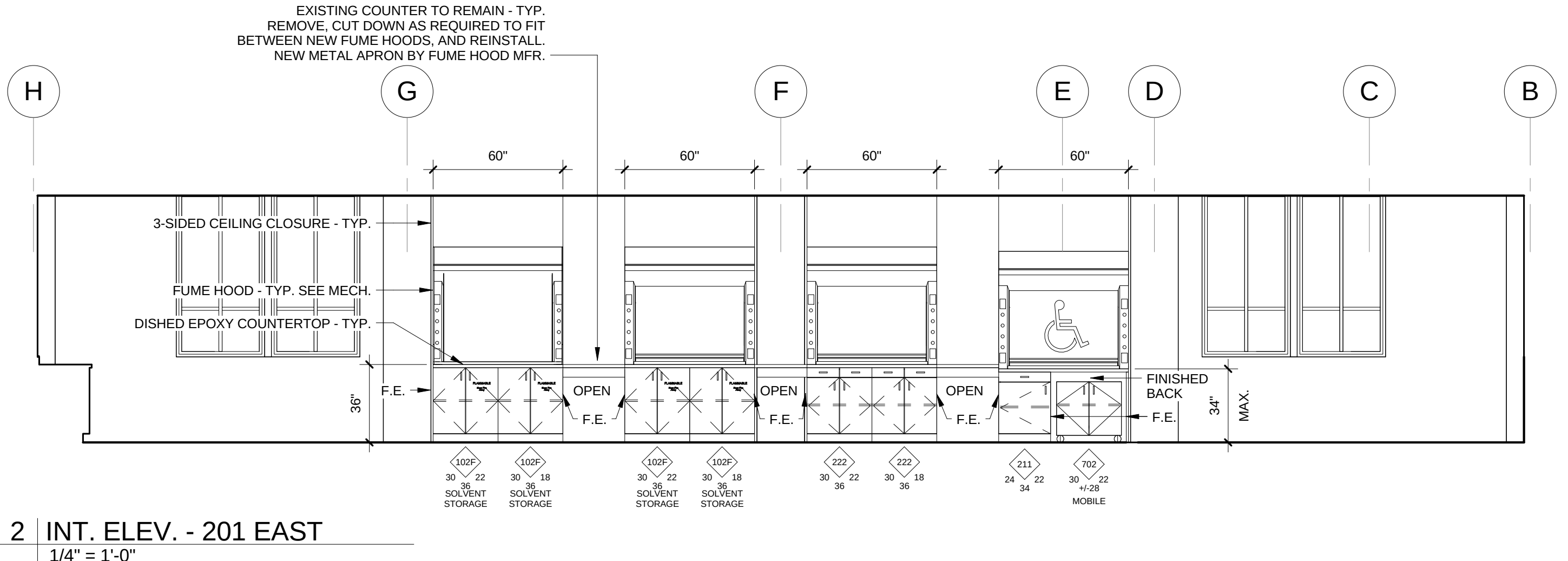
5 | INT. ELEV. - 206B NORTH
1/4" = 1'-0"



4 | INT. ELEV. - 202 WEST
1/4" = 1'-0"

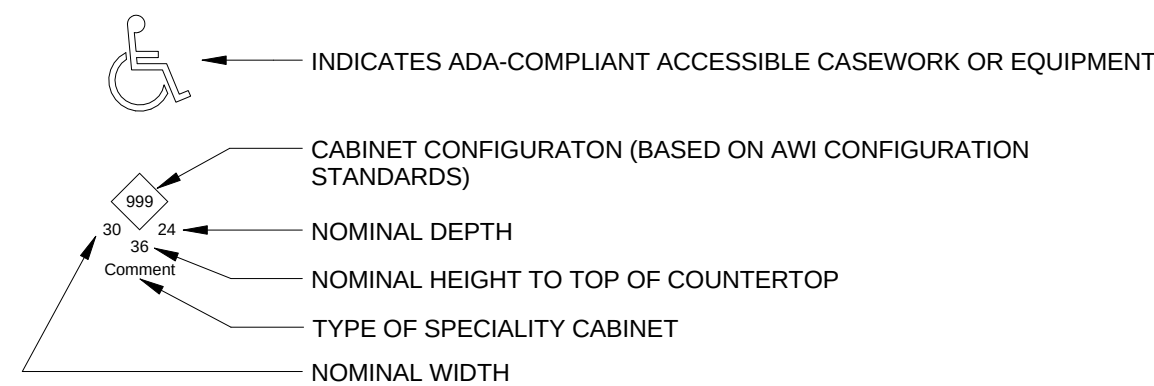


3 | INT. ELEV. - 201 WEST
1/4" = 1'-0"



2 | INT. ELEV. - 201 EAST
1/4" = 1'-0"

CASEWORK LEGEND & ABBREVIATIONS

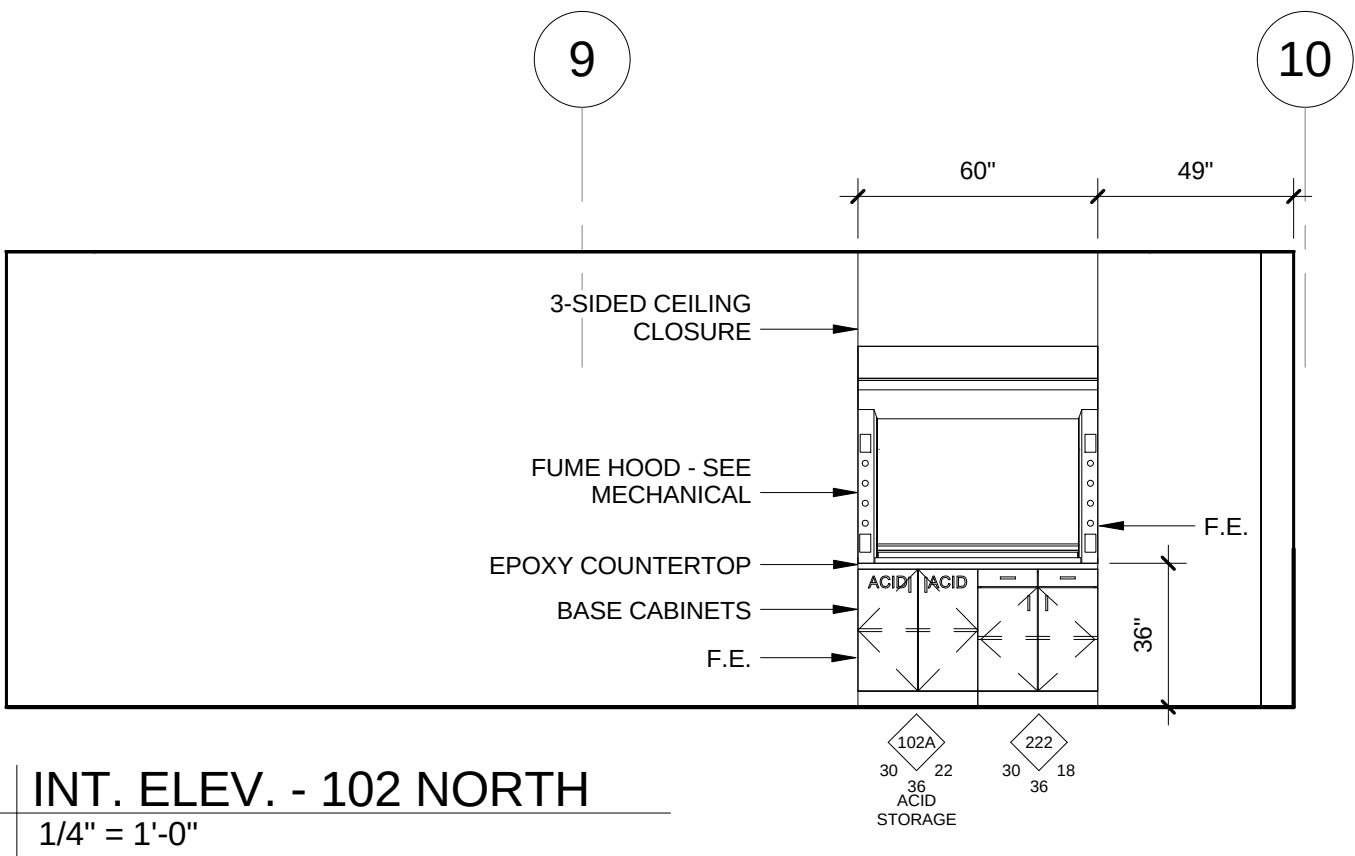


F.E. - FINISHED END, INCLUDING ANY FILLER OR CLOSURE PANELS REQUIRED

NOTE: BASE CABINETS AT FUME HOODS ARE STEEL - SEE SPECIFICATIONS. REFERENCE TO AWI STYLE NUMBERS IS FOR CONFIGURATION ONLY (ARRANGEMENTS OF DOORS, DRAWERS, ETC.) - NOT MATERIALS.

GENERAL INTERIOR ELEVATION NOTES

1. FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS.
2. WHERE ENDS OF CABINETS AND FUME HOODS ARE EXPOSED, PROVIDE FINISHED END PANELS.
3. WHERE ENDS ARE EXPOSED, PROVIDE FINISHED CLOSURE PANELS AT CHASE SPACE BEHIND CABINETS AND HOODS.
4. AT ADA COMPLIANT HOODS, PROVIDE FINISHED BACK AND SIDE PANELS AT KNEE SPACES.
5. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. SEE MECHANICAL DRAWINGS FOR DESCRIPTION OF FUME HOODS.
7. SET NEW BASE CABINETS FLUSH WITH FACE OF ADJACENT, EXISTING CASEWORK AND NEW FUME HOODS.
8. PROVIDE ACCESS PANEL IN ALL FUME HOOD CEILING CLOSURES.
9. BASE CABINETS AT FUME HOODS ARE TO BE PROVIDED BY FUME HOOD MANUFACTURER.
10. PROVIDE FILLER STRIPS WHERE REQUIRED FOR PROPER OPERATION OF DOORS AND FOR FINISHED APPEARANCE.
11. INSTALL NEW RESILIENT BASE TO MATCH EXISTING AT NEW CASEWORK IN ROOMS RETAINING EXISTING FLOORING.
12. INSTALL NEW INTEGRAL COVE BASE AT NEW AND EXISTING CASEWORK IN ROOMS RECEIVING NEW SHEET VINYL FLOORING



1 | INT. ELEV. - 102 NORTH
1/4" = 1'-0"

Xavier University Logan Hall Renovation

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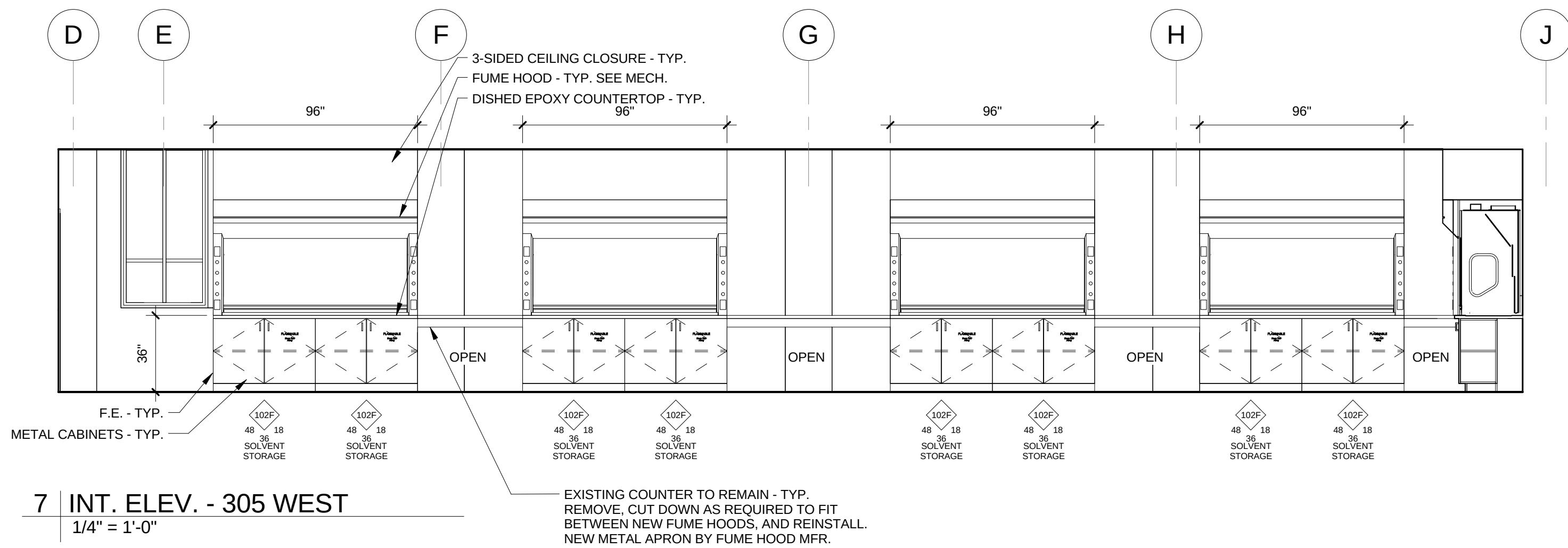
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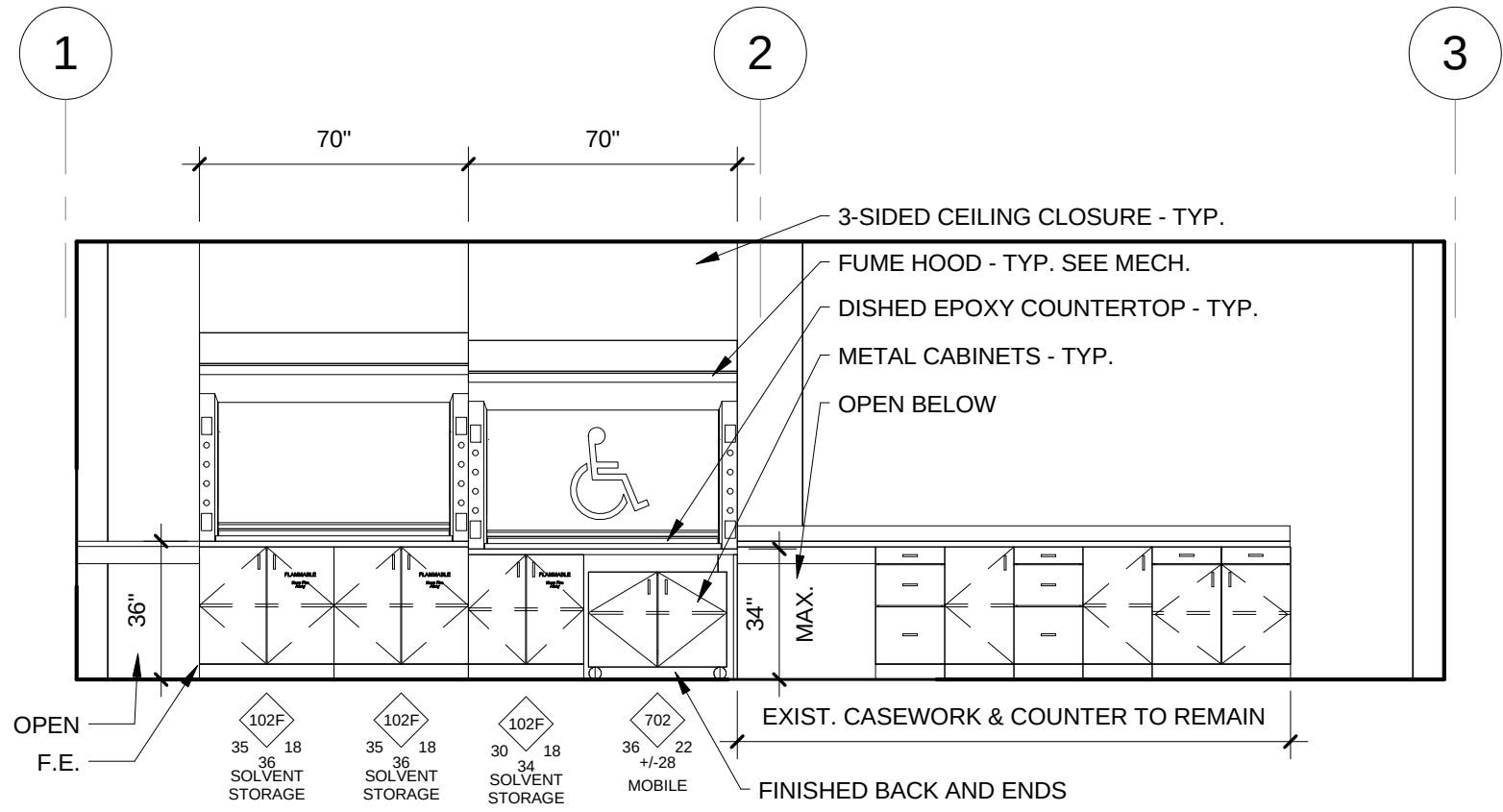
ISSUE	DATE	DESCRIPTION
	03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**INTERIOR
ELEVATIONS**

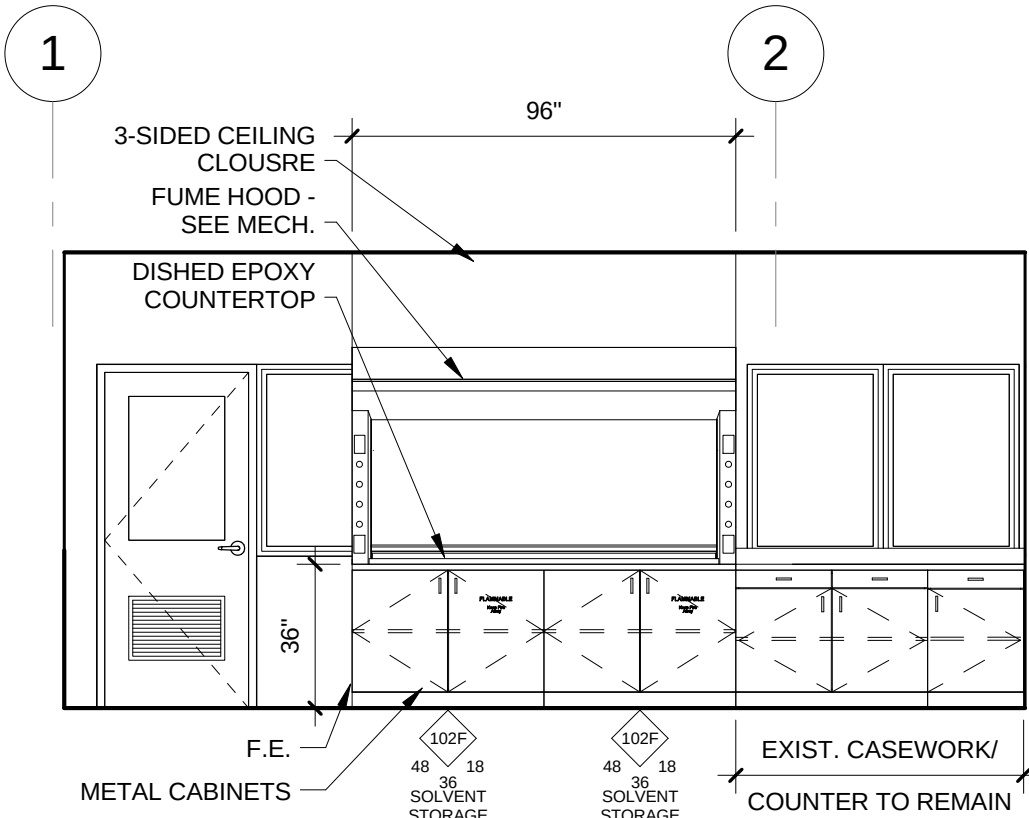
SHEET NO.
A601



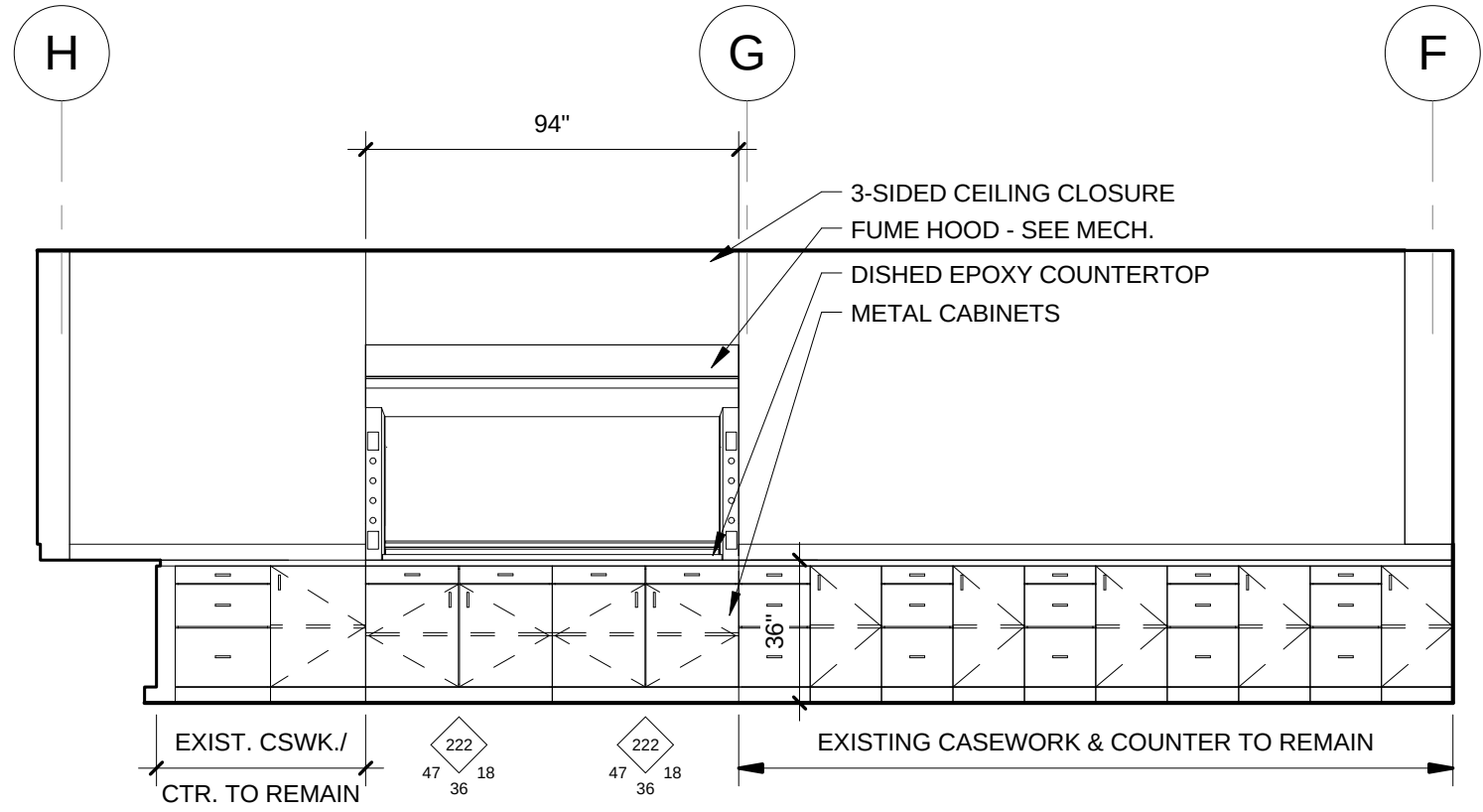
7 | INT. ELEV. - 305 WEST
1/4" = 1'-0"



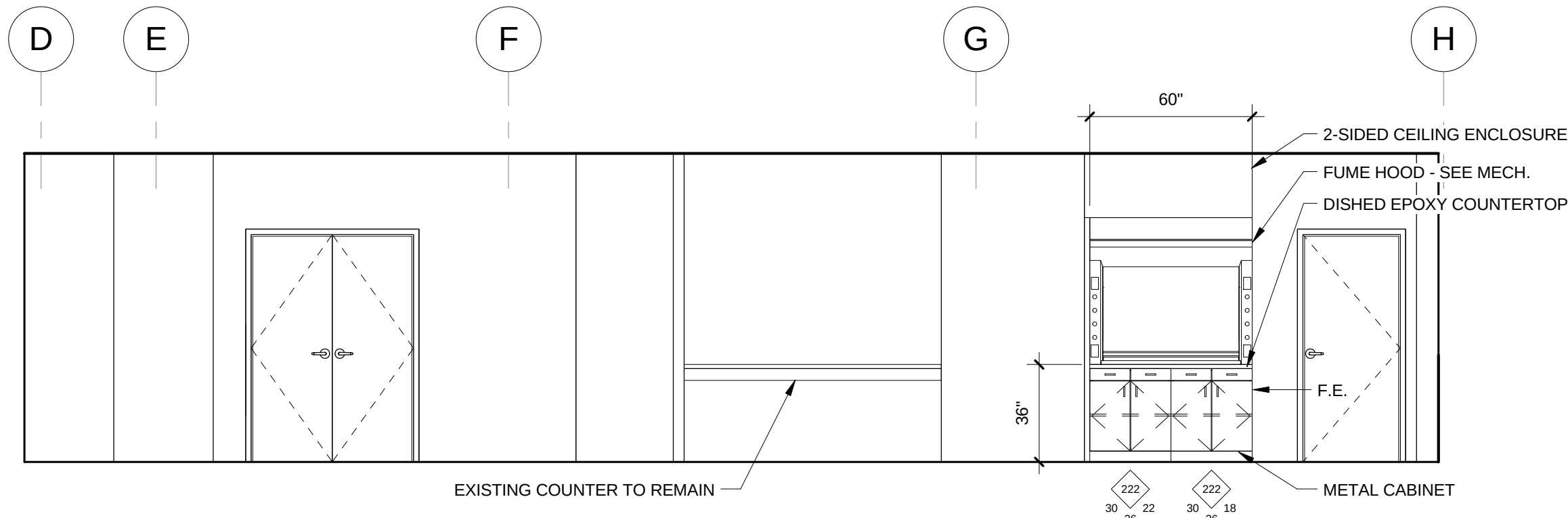
6 | INT. ELEV. - 305 NORTH
1/4" = 1'-0"



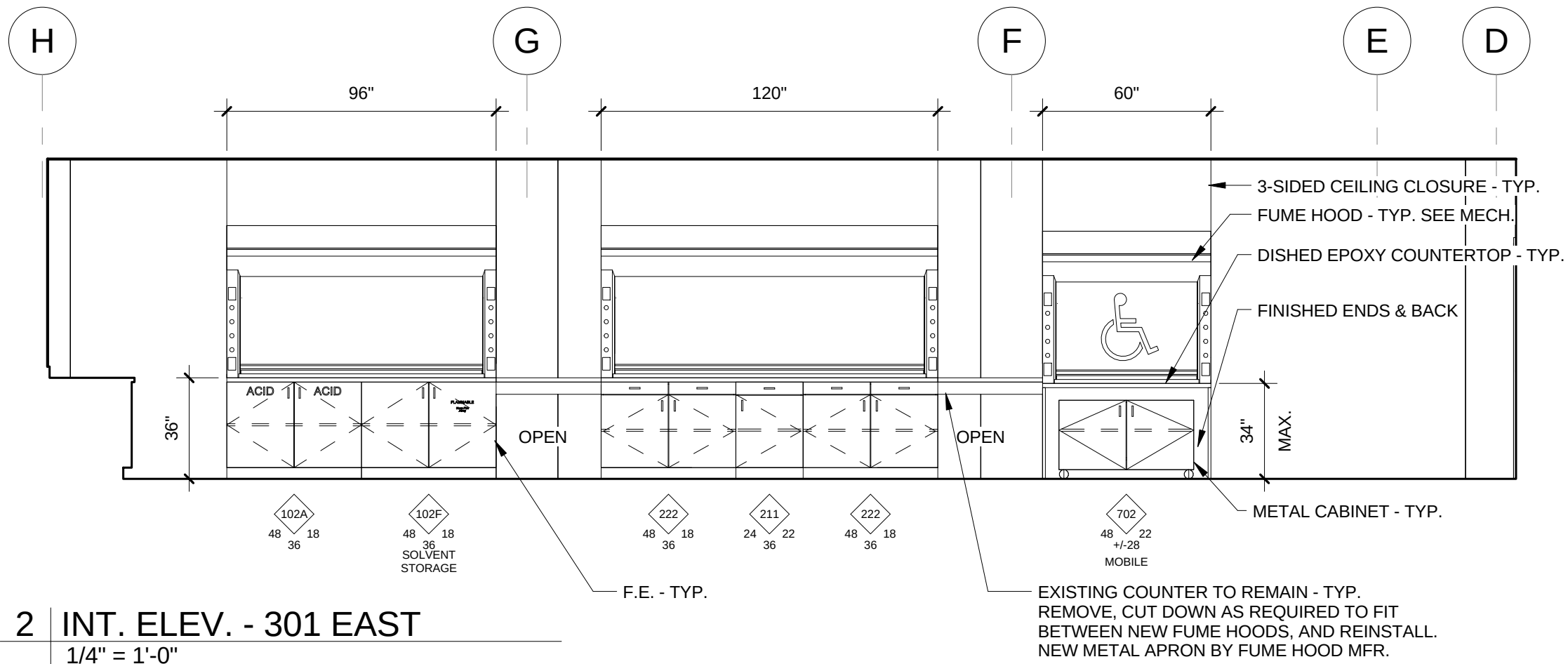
5 | INT. ELEV. - 305B NORTH
1/4" = 1'-0"



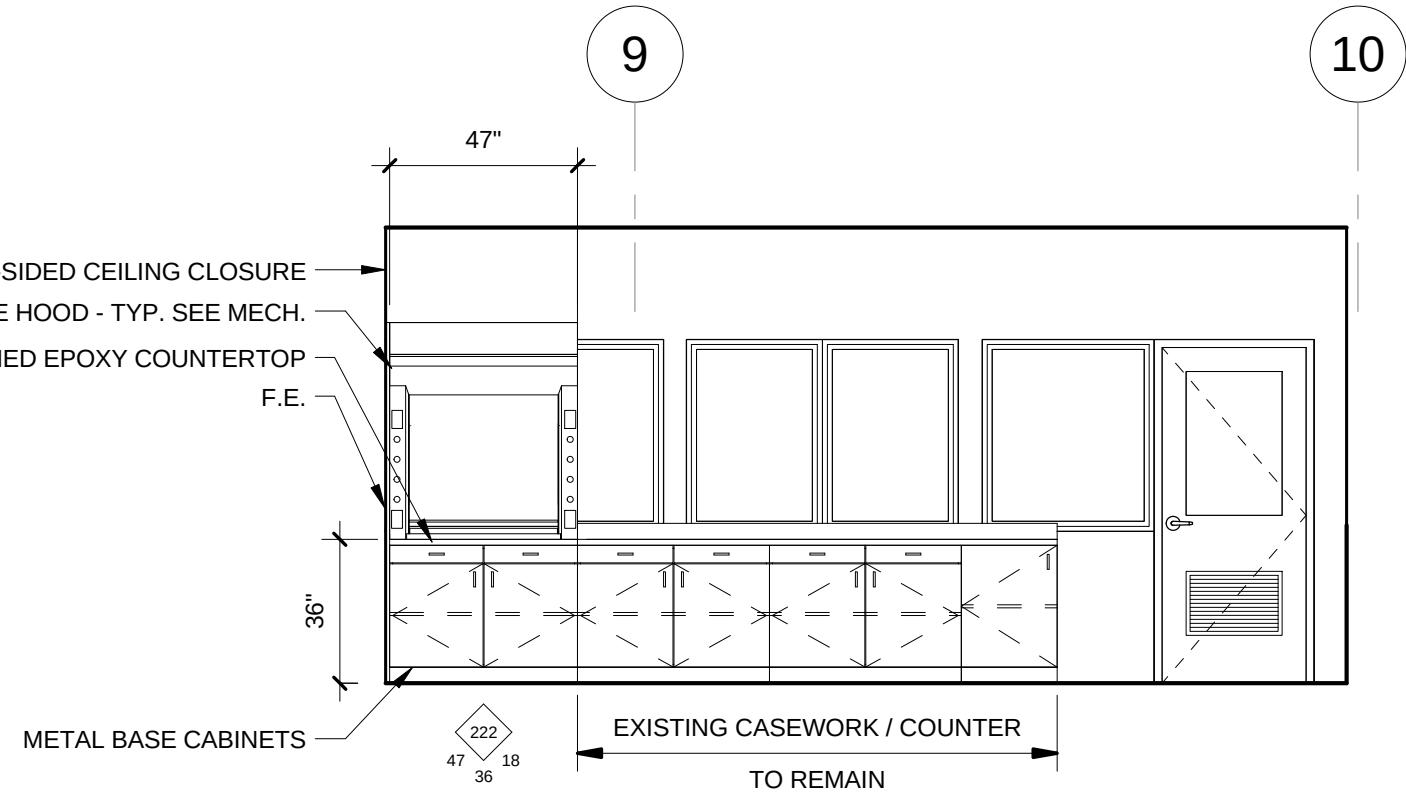
4 | INT. ELEV. - 303 EAST
1/4" = 1'-0"



3 | INT. ELEV. - 301 WEST
1/4" = 1'-0"

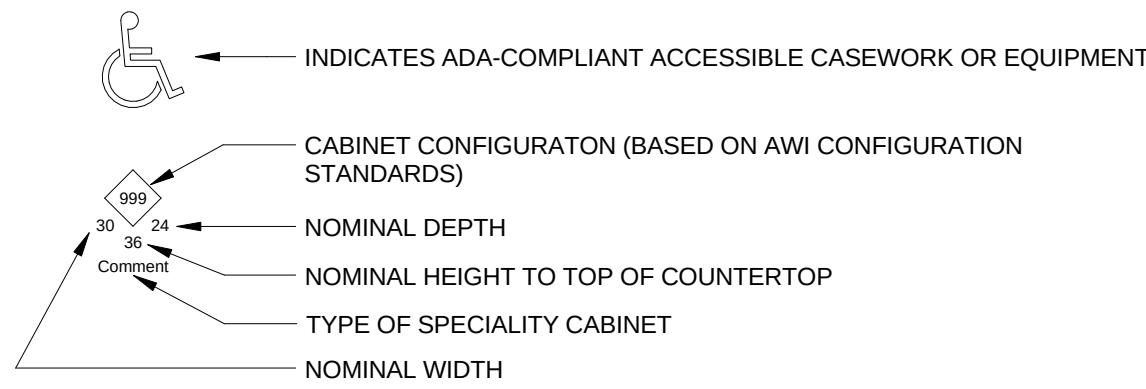


2 | INT. ELEV. - 301 EAST
1/4" = 1'-0"



1 | INT. ELEV. - 301B NORTH
1/4" = 1'-0"

CASEWORK LEGEND & ABBREVIATIONS



F.E. - FINISHED END, INCLUDING ANY FILLER OR CLOSURE PANELS REQUIRED

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- WHERE ENDS OF CABINETS AND FUME HOODS ARE EXPOSED, PROVIDE FINISHED END PANELS.
- WHERE ENDS ARE EXPOSED, PROVIDE FINISHED CLOSURE PANELS AT CHASE SPACE BEHIND CABINETS AND HOODS.
- AT ADA COMPLIANT HOODS, PROVIDE FINISHED BACK AND SIDE PANELS AT KNEE SPACES.
- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- SEE MECHANICAL DRAWINGS FOR DESCRIPTION OF FUME HOODS.
- SET NEW BASE CABINETS FLUSH WITH FACE OF ADJACENT, EXISTING CASEWORK AND NEW FUME HOODS.
- PROVIDE ACCESS PANEL IN ALL FUME HOOD CEILING CLOSURES.
- BASE CABINETS AT FUME HOODS ARE TO BE PROVIDED BY FUME HOOD MANUFACTURER.
- PROVIDE FILLER STRIPS WHERE REQUIRED FOR PROPER OPERATION OF DOORS AND FOR FINISHED APPEARANCE.
- INSTALL NEW RESILIENT BASE TO MATCH EXISTING AT NEW CASEWORK IN ROOMS RETAINING EXISTING FLOORING.
- INSTALL NEW INTEGRAL COVE BASE AT NEW AND EXISTING CASEWORK IN ROOMS RECEIVING NEW SHEET VINYL FLOORING

Xavier University Logan Hall Renovation

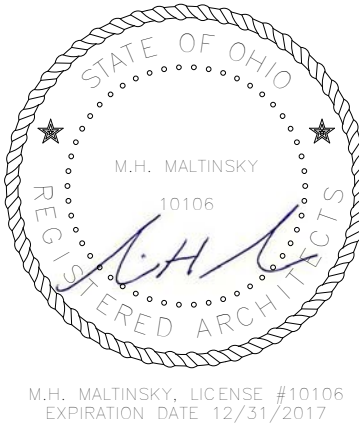
3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



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REV #	DATE	DESCRIPTION

ISSUE		DATE	DESCRIPTION
		03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**INTERIOR
ELEVATIONS**

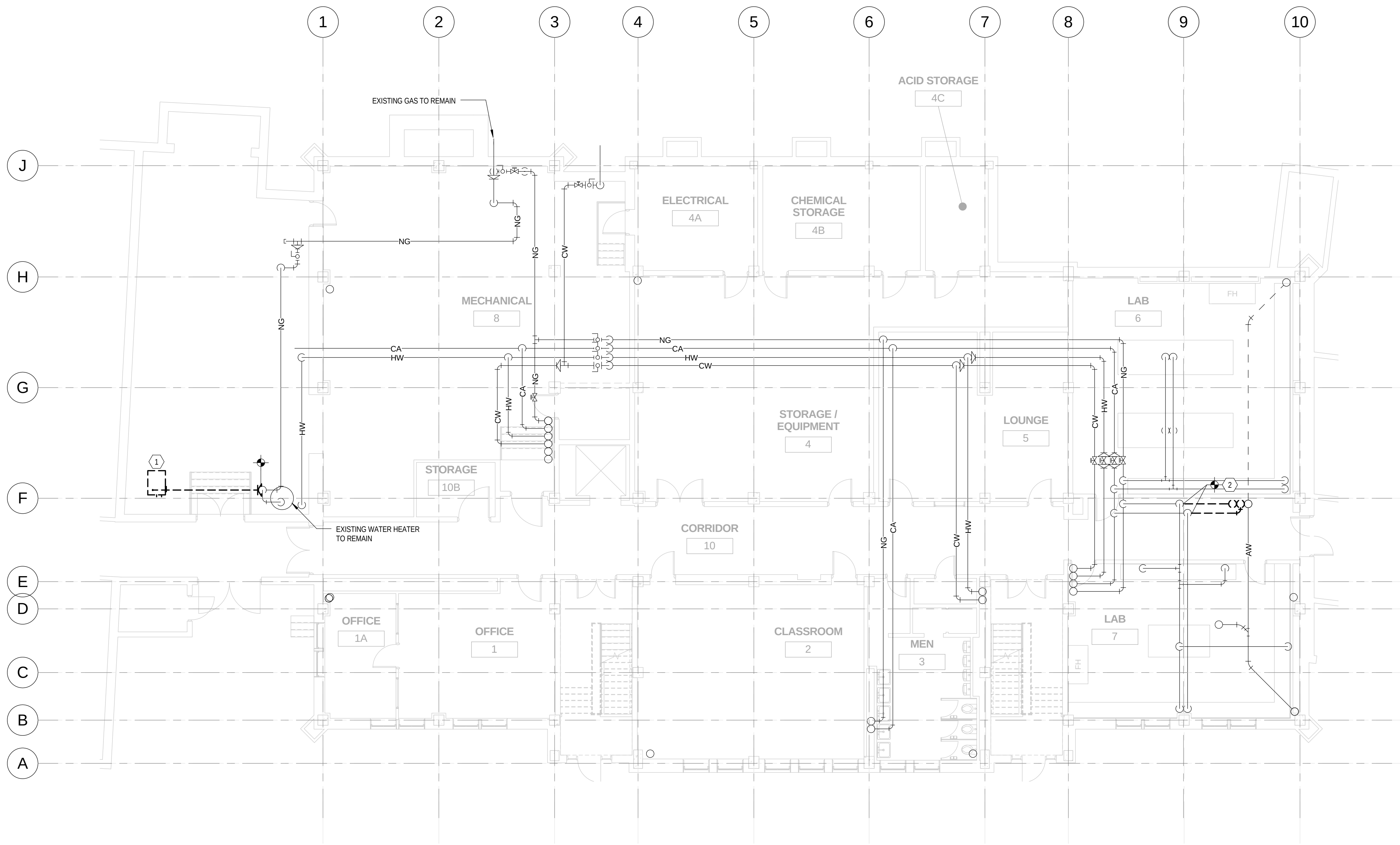
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A602

GENERAL NOTES:

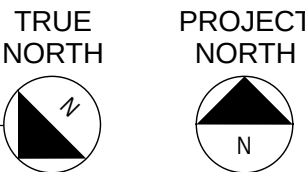
- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
- B. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- C. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS REQUIRED FOR NEW/MODIFIED PLUMBING.
- D. ALL WATER SUPPLY PIPING SHALL BE TYPE L COPPER WITH FITTINGS AND VALVES TO MATCH.
- E. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS.
- F. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS.
- G. CONTRACTOR SHALL VISIT THE JOB SITE AND CHECK AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING. ANY DISCREPANCIES DISCOVERED BETWEEN EXISTING CONDITIONS AT THE SITE AND THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, IN WRITING. CONTRACTOR SHALL INSPECT THE FOLLOWING BUT NOT LIMITED TOO: ALL PIPING AND EQUIPMENT LOCATIONS, CONFIGURATIONS, SIZES AND CONDITIONS. CONTRACTOR SHALL ALSO LOCATE UNDERGROUND SANITARY AND STORM PIPING AND INVERT ELEVATIONS AT TIE IN POINTS.
- H. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
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- J. FIRE STOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATION OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH PENETRATION" ASSEMBLIES.
- K. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

DRAWING NOTES:

1. REMOVE EXISTING HEATING HOT WATER BOILER IN ITS ENTIRETY. REMOVE NATURAL GAS BACK TO POINT SHOWN AND CAP. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. REMOVE GAS AND COMPRESSED AIR PIPING SERVING HOOD ABOVE BACK TO POINT SHOWN. PROVIDE ISOLATION VALVE AND CAP.



DEMOLITION - LOWER LEVEL PLUMBING PLAN
SCALE: 1/8" = 1'-0"



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Logan Hall
Renovation

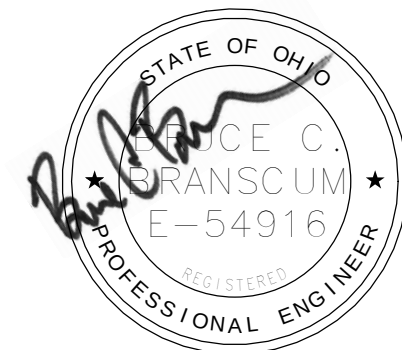
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DEMOLITION
LOWER LEVEL
PLUMBING
PLAN

PD100

Xavier University
Logan Hall
Renovation

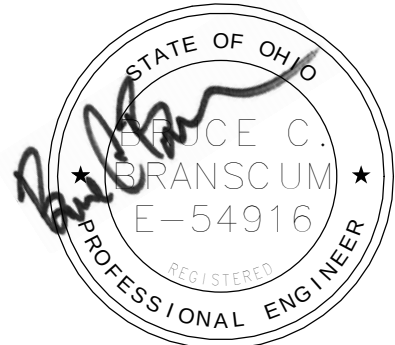
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DEMOLITION
FIRST FLOOR
PLUMBING
PLAN

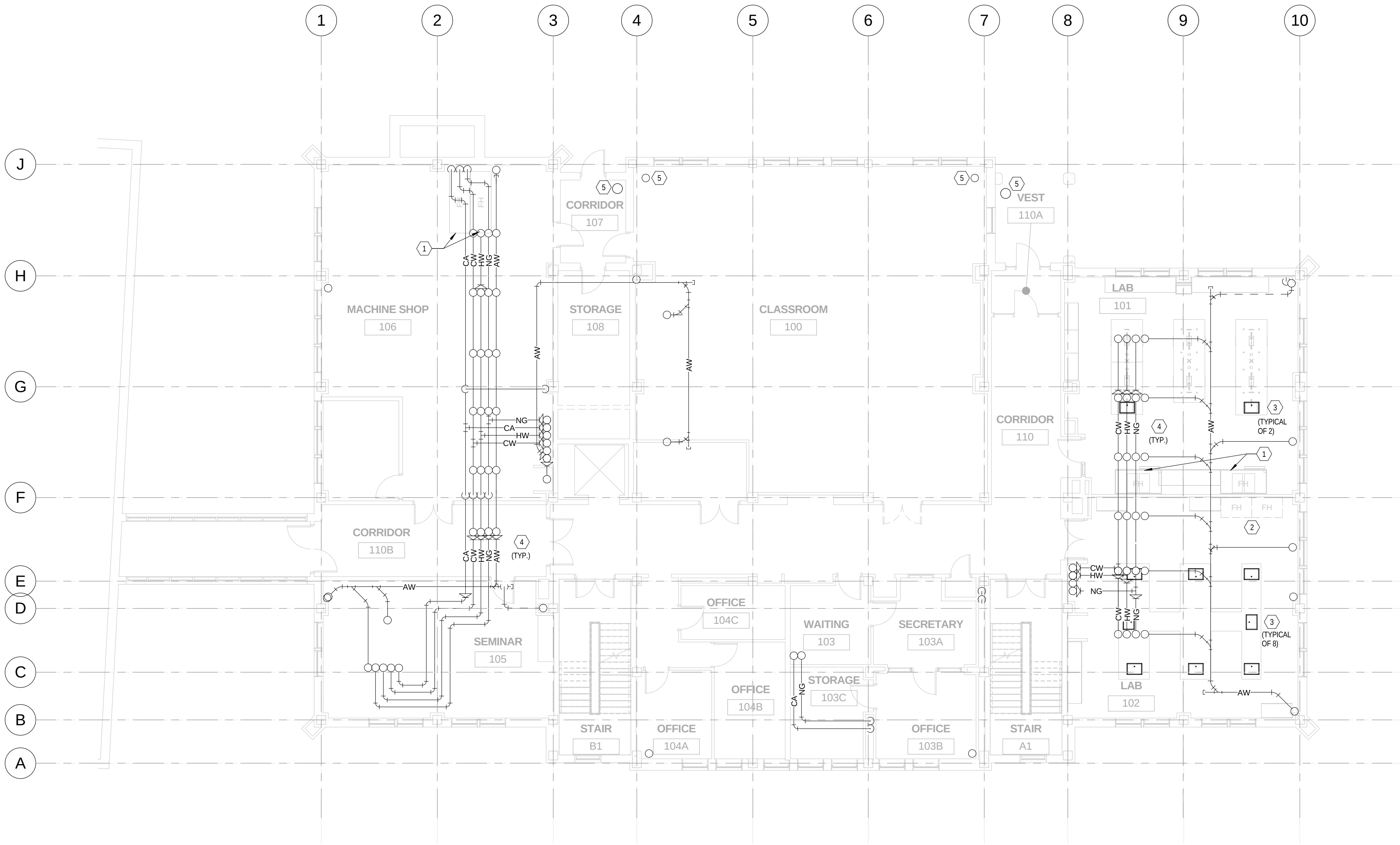
PD101

GENERAL NOTES:

- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
- B. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- C. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS REQUIRED FOR NEW/MODIFIED PLUMBING.
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- K. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

DRAWING NOTES:

1. EXISTING TO REMAIN - NO WORK.
2. DISCONNECT EXISTING AIR / GAS / WATER AND CUP SINK DRAIN AS REQUIRED TO ACCOMMODATE NEW HOOD.
3. DISCONNECT / REMOVE EXISTING TAIL PIECE, P-TRAP, AND DRAIN.
4. EXISTING PIPING SHOWN FOR REFERENCE.
5. EXISTING ROOF DRAIN TO BE REPLACED. REMOVE PIPING / INSULATION AS REQUIRED TO ACCOMMODATE.



DEMOLITION - FIRST FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"



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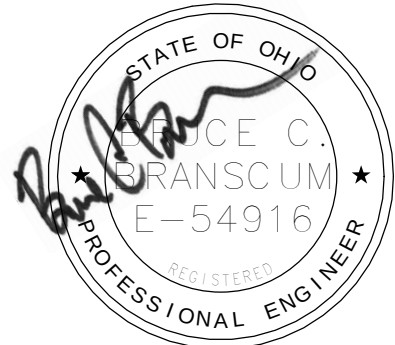
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DEMOLITION
SECOND FLOOR
PLUMBING
PLAN

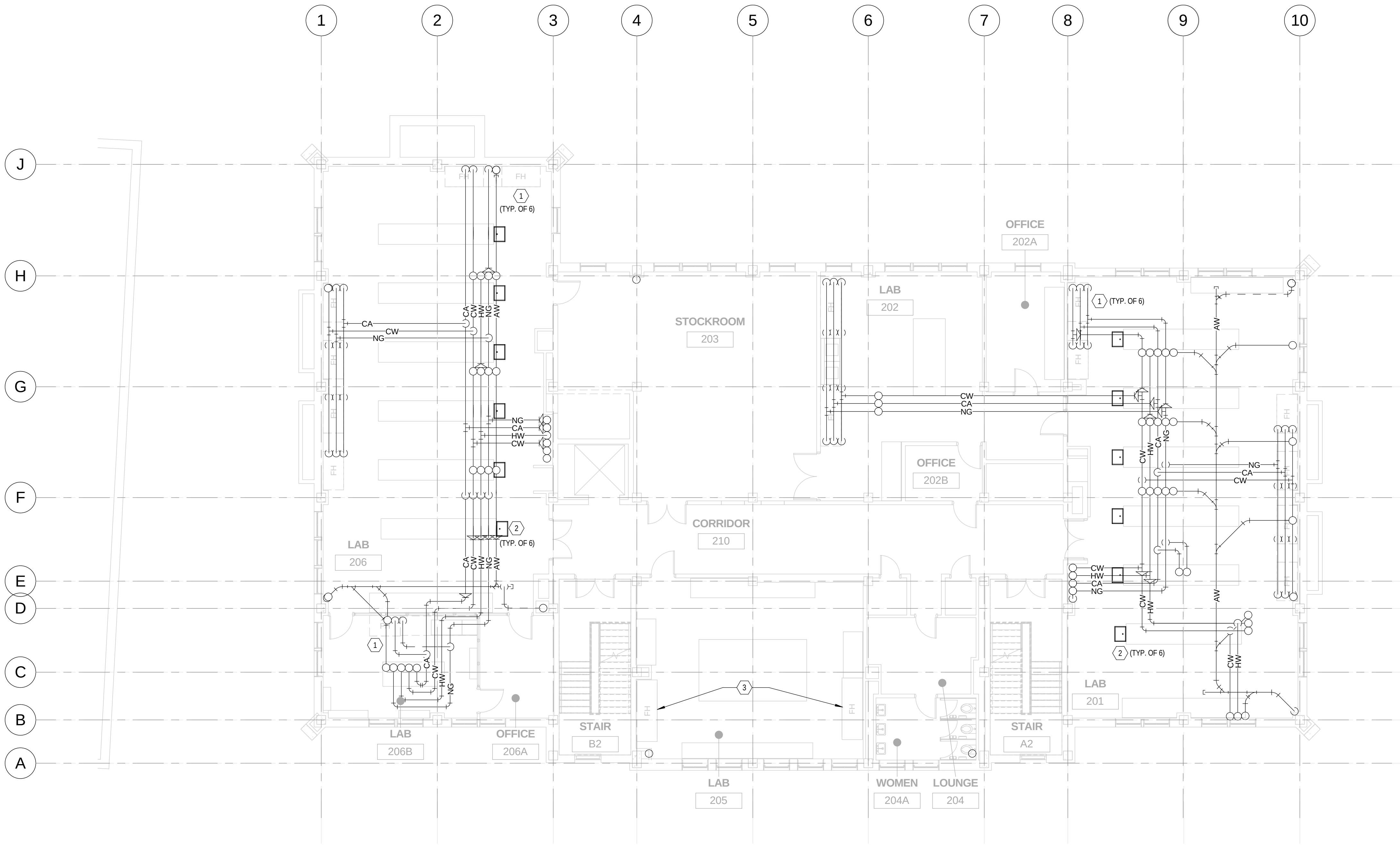
PD102

GENERAL NOTES:

- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
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DRAWING NOTES:

1. DISCONNECT EXISTING AIR / GAS / WATER AND CUP SINK DRAIN AS REQUIRED TO ACCOMMODATE NEW HOOD.
2. DISCONNECT / REMOVE EXISTING TAIL PIECE, P-TRAP, AND DRAIN.
3. EXISTING TO REMAIN.



DEMOLITION - SECOND FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"



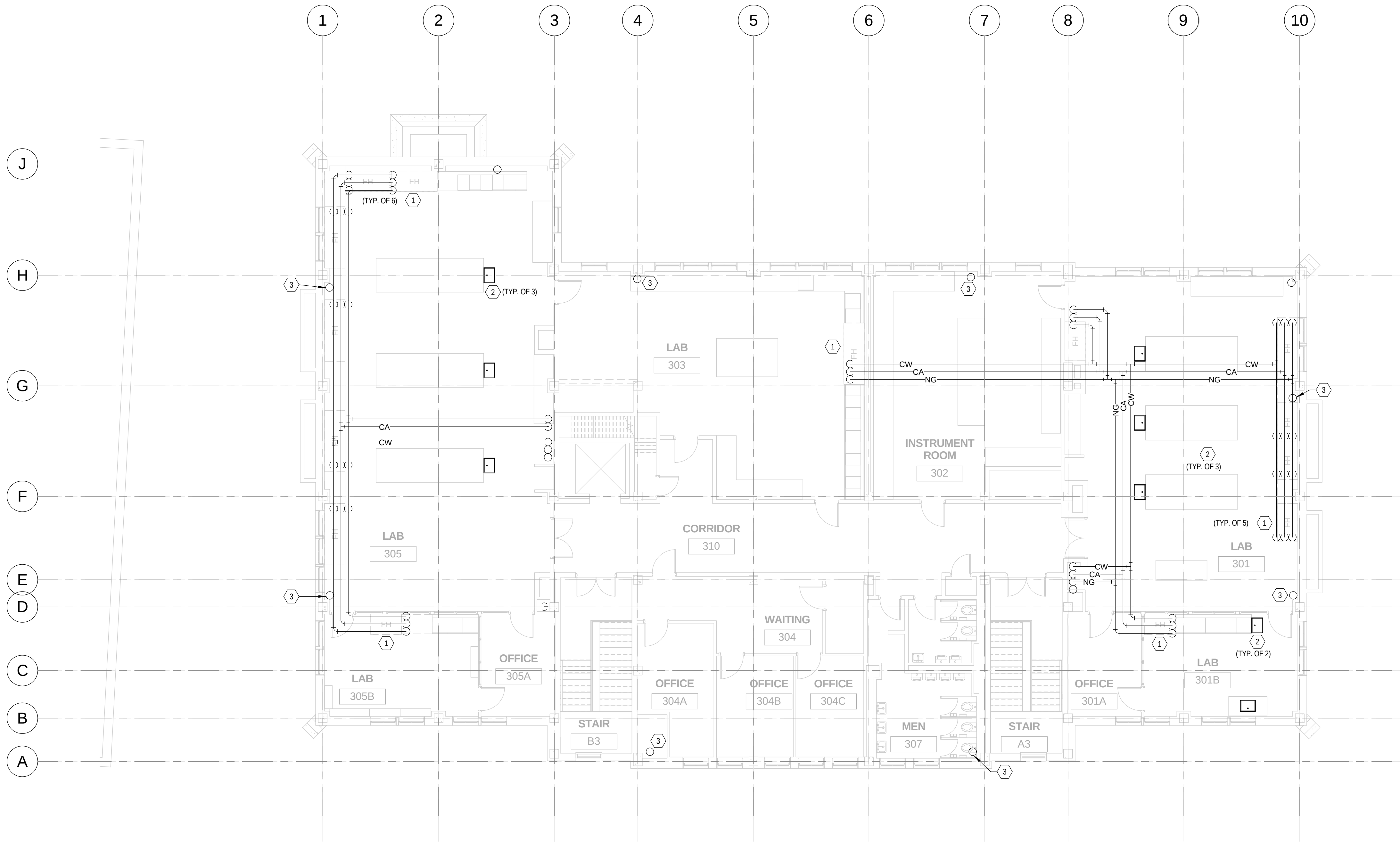
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GENERAL NOTES:

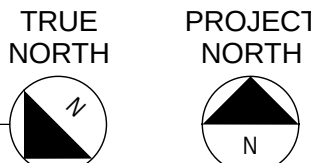
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DRAWING NOTES:

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2. DISCONNECT / REMOVE EXISTING TAIL PIECE, P-TRAP, AND DRAIN.
3. EXISTING ROOF DRAIN TO BE REPLACED. REMOVE PIPING / INSULATION AS REQUIRED TO ACCOMMODATE.



DEMOLITION - THIRD FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



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Renovation

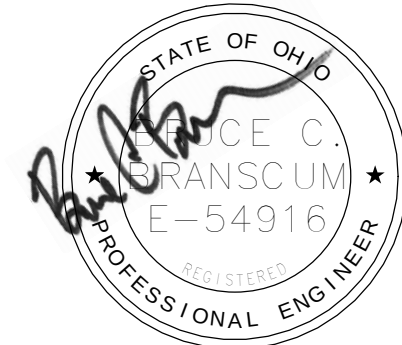
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DEMOLITION
THIRD FLOOR
PLUMBING
PLAN

PD103

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Logan Hall
Renovation

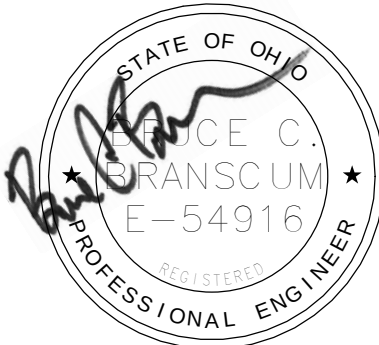
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DEMOLITION
PLUMBING
ROOF PLAN

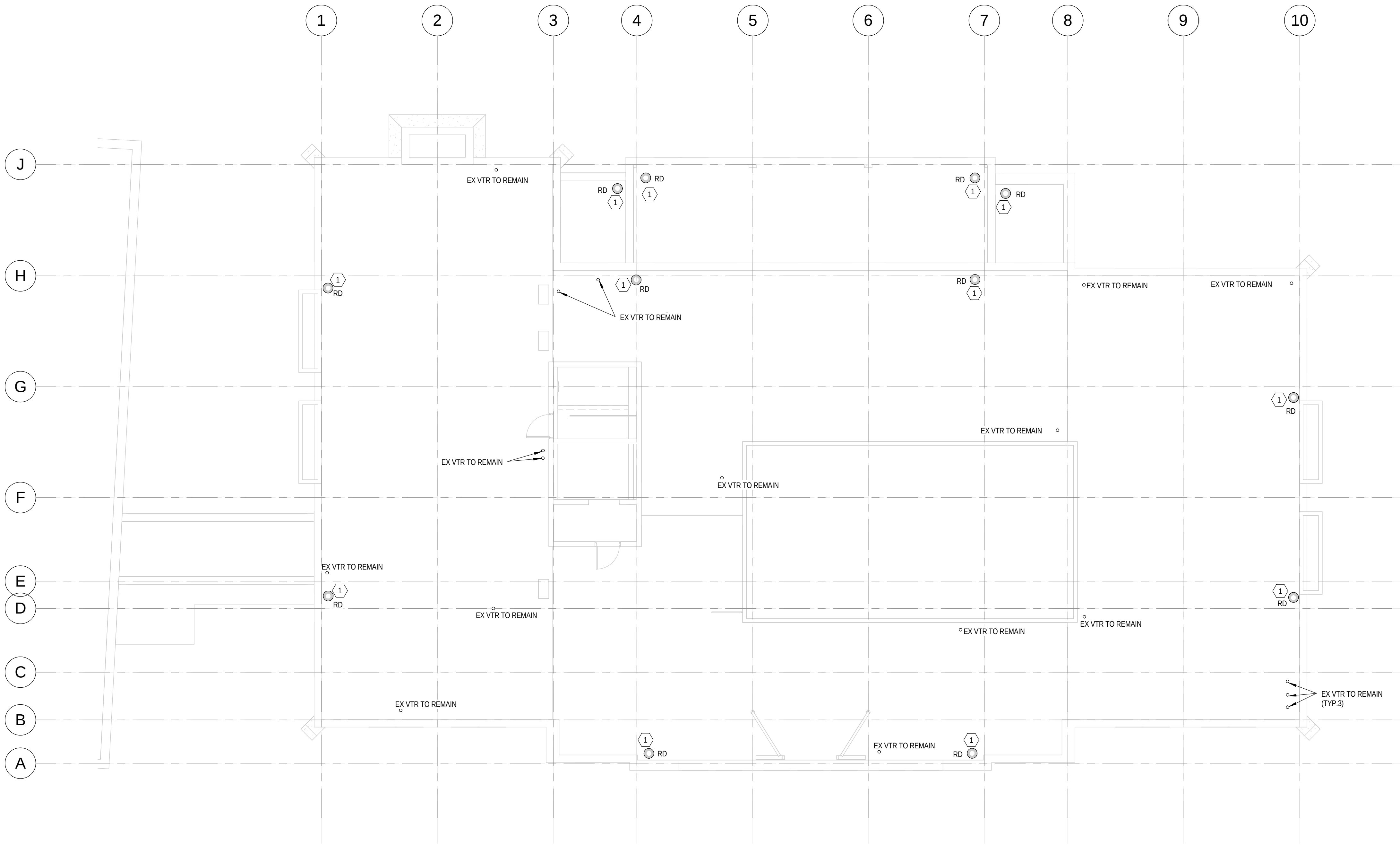
PD104

GENERAL NOTES:

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- C. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS REQUIRED FOR NEW/MODIFIED PLUMBING.
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DRAWING NOTES:

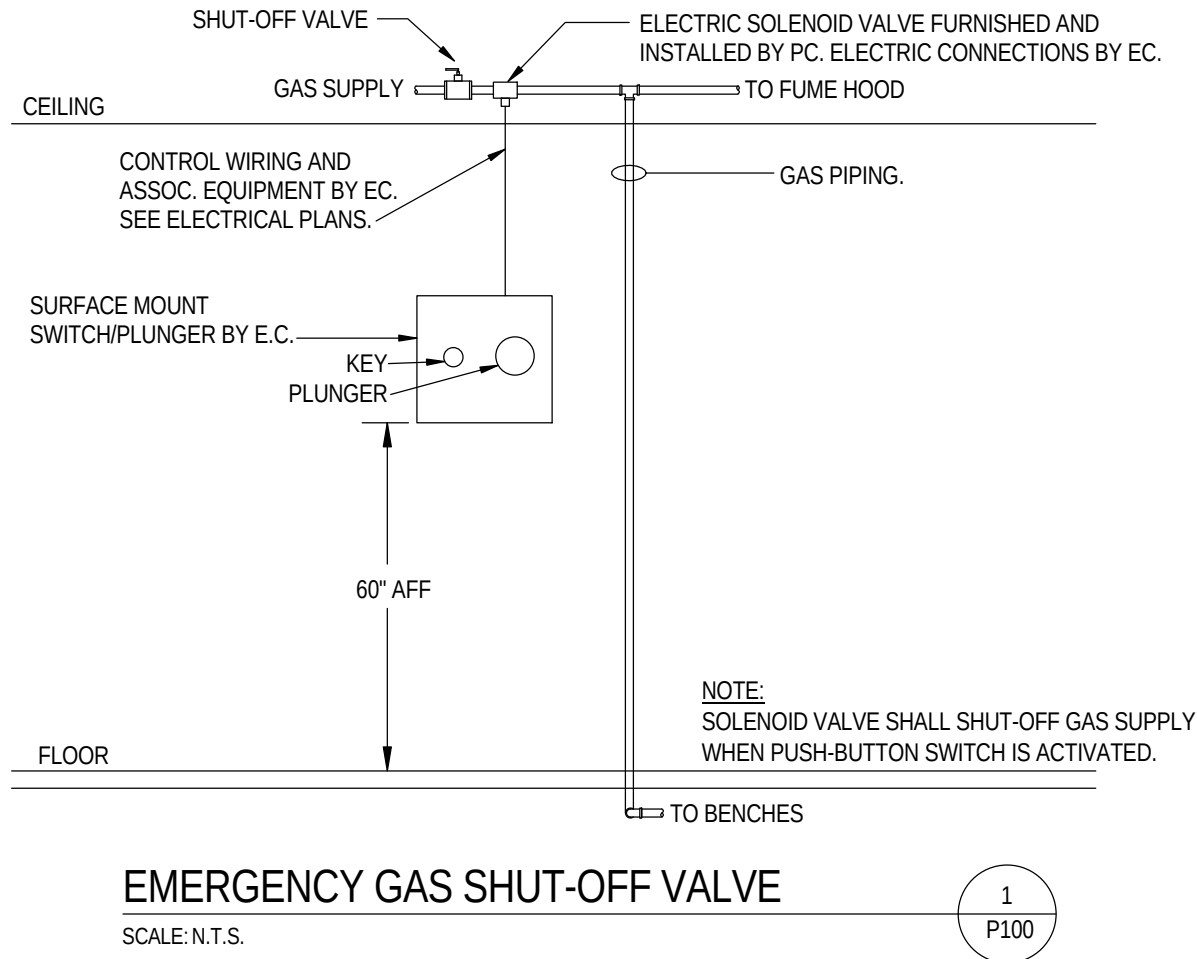
1. REMOVE EXISTING ROOF DRAINS.



DEMOLITION - PLUMBING ROOF PLAN

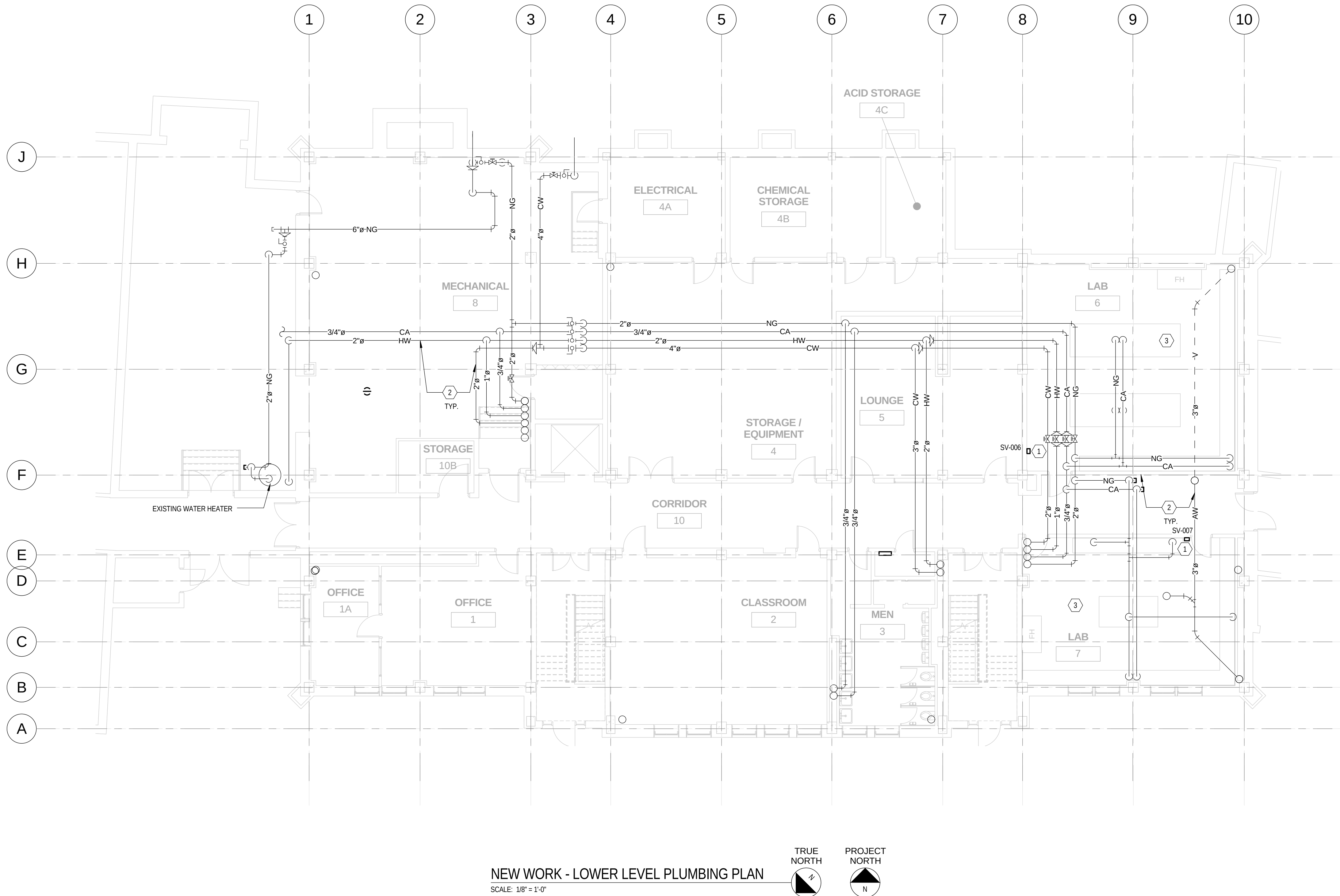
SCALE: 1/8" = 1'-0"





- GENERAL NOTES:**
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 - ALL WATER SUPPLY PIPING SHALL BE TYPE L COPPER WITH FITTINGS AND VALVES TO MATCH.
 - ALL SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH FITTINGS MATCH.
 - REFER TO SHEET P400 FOR PLUMBING FIXTURE TYPES.
 - CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS.
 - CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS.
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 - IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

- DRAWING NOTES:**
- PROVIDE GAS SHUT OFF VALVES AND SWITCH EQUAL TO ASCO 216C89 TO ISOLATE GAS SERVICES TO EACH LAB. FIELD COORDINATE SWITCH LOCATIONS WITH EXISTING CONDITIONS.
 - EXISTING PIPING SHOWN FOR REFERENCE.
 - REWORK GAS PIPE AS REQUIRED TO ACCOMMODATE ONE (1) SHUT-OFF VALVE LOCATED ABOVE CEILING OF LAB SERVED. REFER TO DETAIL 1 ON THIS SHEET.



Xavier University Logan Hall Renovation

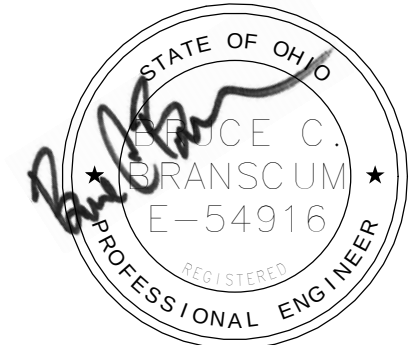
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Commissioning Design Build

STRUCTURAL ENGINEERS:

schaefer

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SHEET REVISION		
REV #	DATE	DESCRIPTION
1	3/07/2017	FOR BIDDING AND PERMIT

DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

**NEW WORK
LOWER LEVEL
PLUMBING
PLAN**

P100

Xavier University
Logan Hall
Renovation

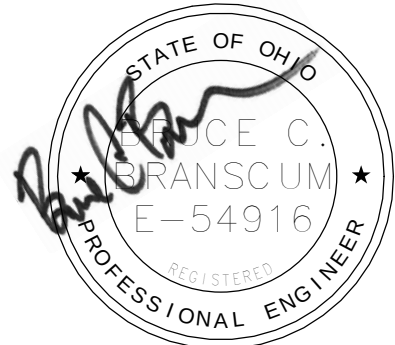
3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



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Cincinnati OH
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ELECTRICAL ENGINEERS:



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NEW WORK
FIRST FLOOR
PLUMBING
PLAN

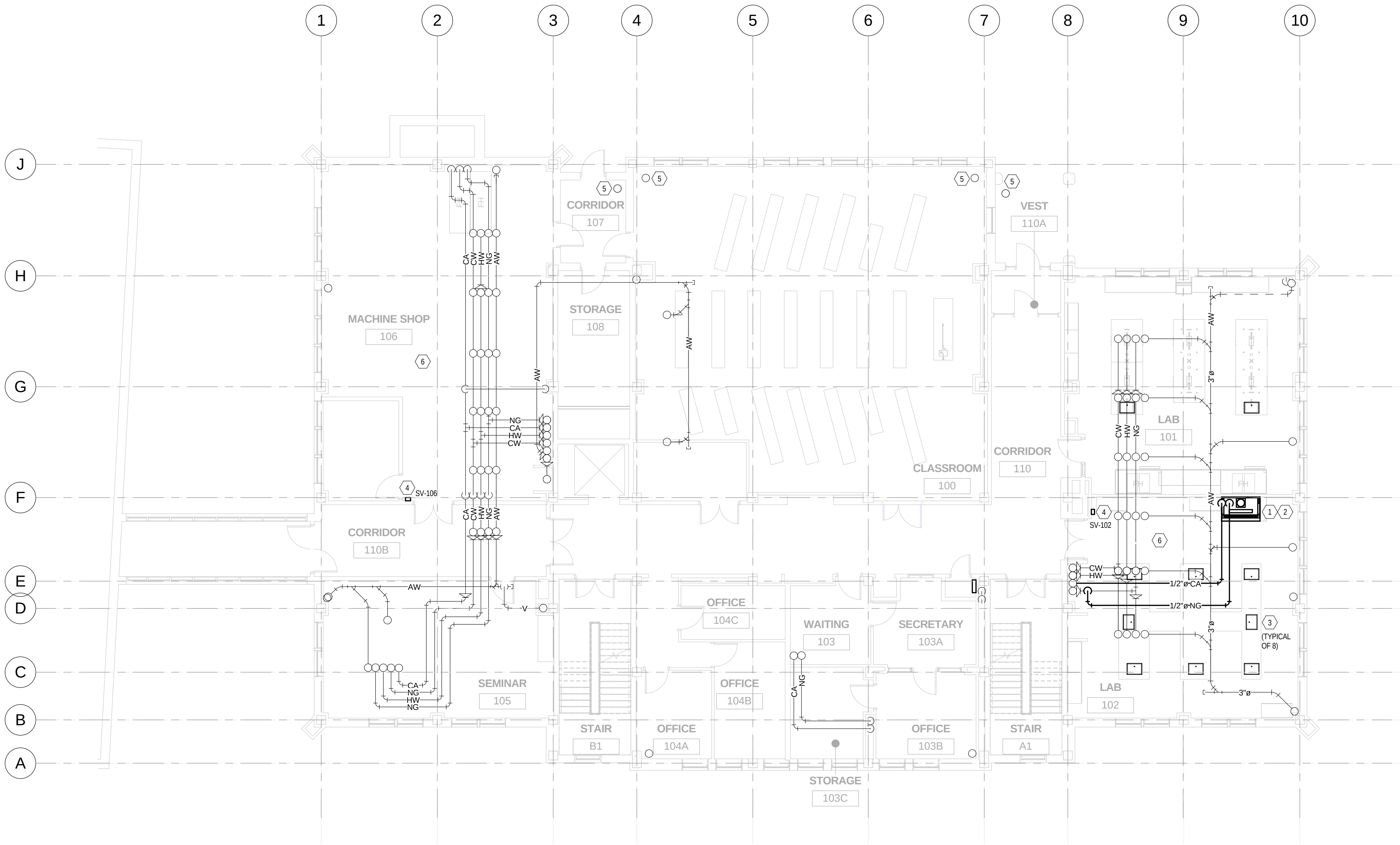
P101

GENERAL NOTES:

- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
- B. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- C. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS REQUIRED FOR NEW/MODIFIED PLUMBING.
- D. ALL WATER SUPPLY PIPING SHALL BE TYPE L COPPER WITH FITTINGS AND VALVES TO MATCH.
- E. ALL SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH FITTINGS MATCH.
- F. REFER TO SHEET P400 FOR PLUMBING FIXTURE TYPES.
- G. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS.
- H. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS.
- I. CONTRACTOR SHALL VISIT THE JOB SITE AND CHECK AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING. ANY DISCREPANCIES DISCOVERED BETWEEN EXISTING CONDITIONS AT THE SITE AND THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, IN WRITING. CONTRACTOR SHALL INSPECT THE FOLLOWING BUT NOT LIMITED TOO: ALL PIPING AND EQUIPMENT LOCATIONS, CONFIGURATIONS, SIZES AND CONDITIONS. CONTRACTOR SHALL ALSO LOCATE UNDERGROUND SANITARY AND STORM PIPING AND INVERT ELEVATIONS AT TIE IN POINTS.
- J. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- K. CONTRACTOR SHALL REMOVE ALL PIPING THAT IS NOT IN THE FINAL ARRANGEMENT.
- L. FIRE STOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATION OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH PENETRATION" ASSEMBLIES.
- M. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

DRAWING NOTES:

1. CONNECT 1/2" GAS, 1/2" AIR, 1/2" WATER TO NEW FUME HOOD. REMOVE EXISTING SHUTOFF VALVES AND PROVIDE NEW FOR EACH HOOD.
2. CONNECT 1-1/2" DRAIN TO NEW CUP SINK AND EXISTING DRAIN LINE.
3. REPLACE EXISTING DRAIN-TRAP WITH NEW. CONNECT TO EXISTING.
4. PROVIDE GAS SHUT OFF VALVES AND SWITCH EQUAL TO ASCO 216C89 TO ISOLATE GAS SERVICES TO EACH LAB. FIELD COORDINATE SWITCH LOCATIONS WITH EXISTING CONDITIONS.
5. NEW ROOF DRAIN ABOVE TO REPLACE EXISTING. PROVIDE NEW PIPE AS REQUIRED. INSULATE PIPE AND PAN TO PREVENT CONDENSATION.
6. REWORK GAS PIPE AS REQUIRED TO ACCOMMODATE ONE (1) SHUT-OFF VALVE LOCATED ABOVE CEILING OF LAB SERVED. REFER TO DETAIL 1 ON SHEET P100.



NEW WORK - FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

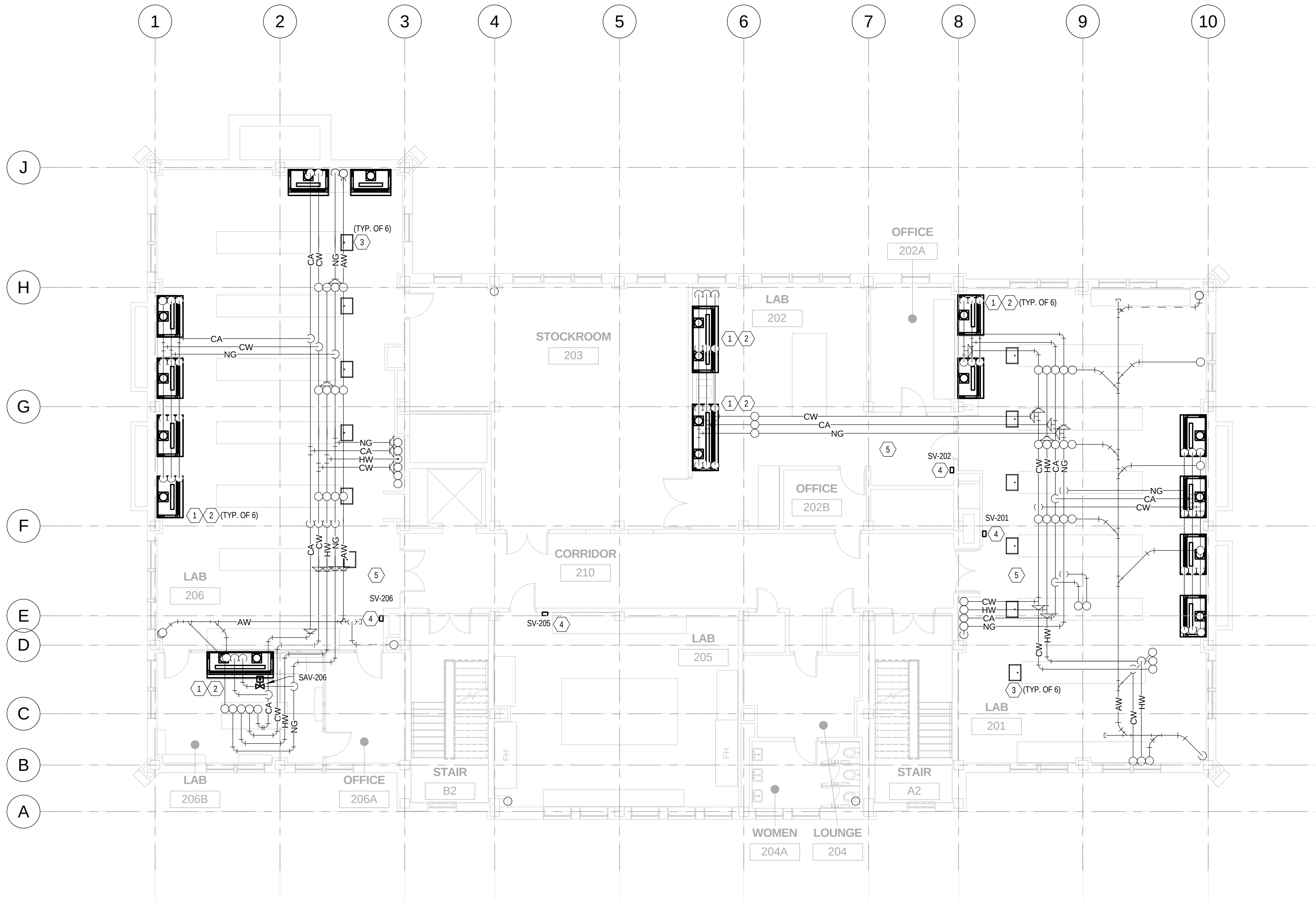


GENERAL NOTES:

- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
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- D. ALL WATER SUPPLY PIPING SHALL BE TYPE L COPPER WITH FITTINGS AND VALVES TO MATCH.
- E. ALL SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH FITTINGS MATCH.
- F. REFER TO SHEET P400 FOR PLUMBING FIXTURE TYPES.
- G. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS.
- H. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS.
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- M. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

DRAWING NOTES:

1. CONNECT 1/2" GAS, 1/2" AIR, 1/2" WATER TO NEW FUME HOOD. REMOVE EXISTING SHUTOFF VALVES AND PROVIDE NEW FOR EACH HOOD.
2. CONNECT 1-1/2" DRAIN TO NEW CUP SINK AND EXISTING DRAIN LINE.
3. REPLACE EXISTING DRAIN/P-TRAP WITH NEW. CONNECT TO EXISTING.
4. PROVIDE GAS SHUT OFF VALVES AND SWITCH EQUAL TO ASCO 216C89 TO ISOLATE GAS SERVICES TO EACH LAB. FIELD COORDINATE SWITCH LOCATIONS WITH EXISTING CONDITIONS.
5. REWORK GAS PIPE AS REQUIRED TO ACCOMMODATE ONE (1) SHUT-OFF VALVE LOCATED ABOVE CEILING OF LAB SERVED. REFER TO DETAIL 1 ON SHEET P100.



NEW WORK - SECOND FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

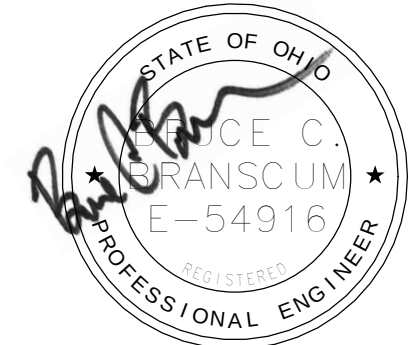
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Project #: 16015



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**NEW WORK
SECOND FLOOR
PLUMBING
PLAN**

P102

Xavier University
Logan Hall
Renovation

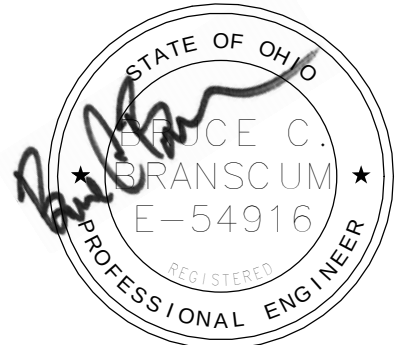
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NEW WORK
THIRD FLOOR
PLUMBING
PLAN

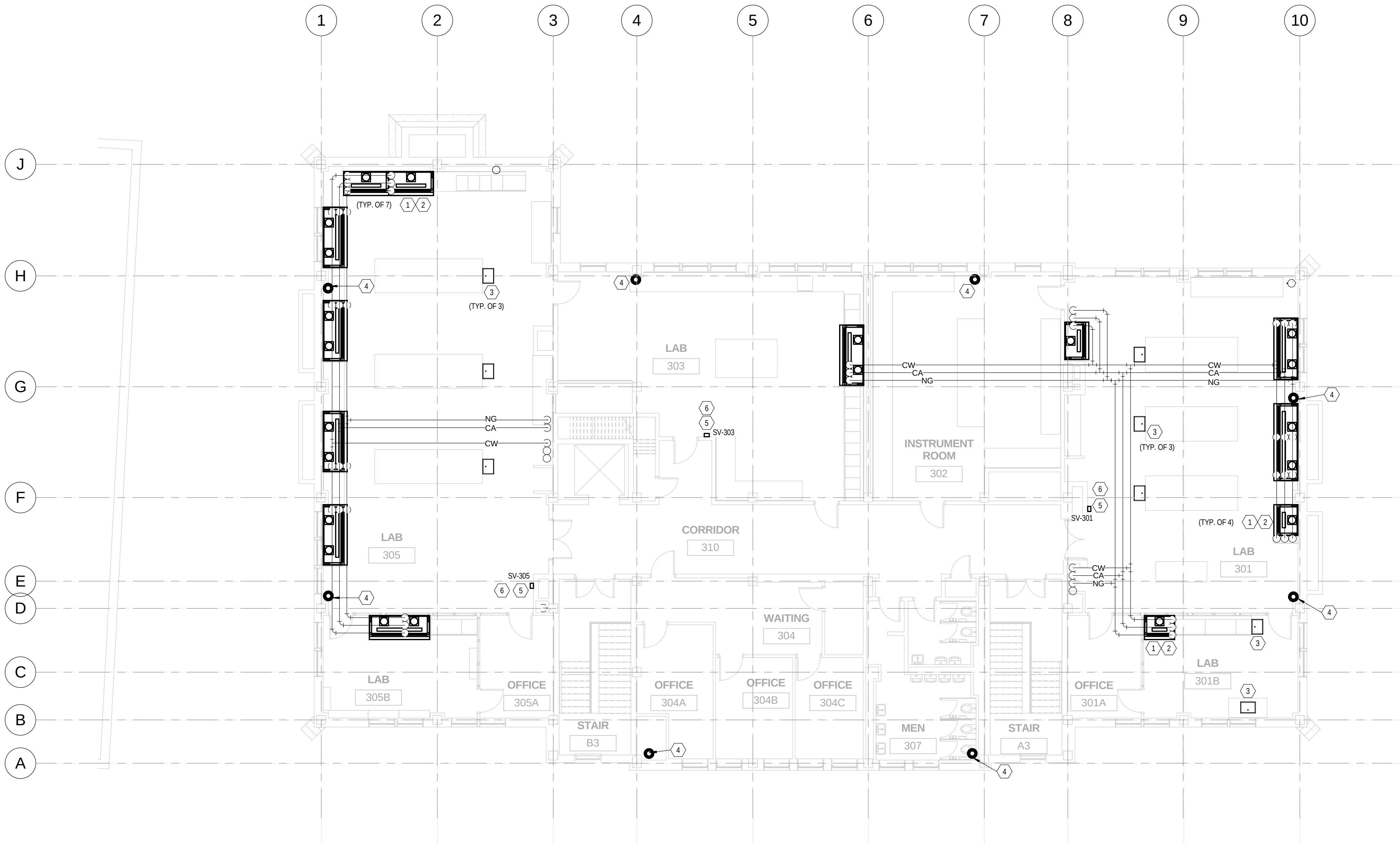
P103

GENERAL NOTES:

- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
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- E. ALL SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH FITTINGS MATCH.
- F. REFER TO SHEET P400 FOR PLUMBING FIXTURE TYPES.
- G. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS.
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DRAWING NOTES:

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4. NEW ROOF DRAIN ABOVE TO REPLACE EXISTING. PROVIDE NEW PIPE AS REQUIRED. INSULATE PIPE AND PAN TO PREVENT CONDENSATION.
5. PROVIDE GAS SHUT OFF VALVES AND SWITCH EQUAL TO ASCO 216C89 TO ISOLATE GAS SERVICES TO EACH LAB. FIELD COORDINATE SWITCH LOCATIONS WITH EXISTING CONDITIONS.
6. REWORK GAS PIPE AS REQUIRED TO ACCOMMODATE ONE (1) SHUT-OFF VALVE LOCATED ABOVE CEILING OF LAB SERVED. REFER TO DETAIL 1 ON SHEET P100.



NEW WORK - THIRD FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"



PRINT DATE: 3/6/2017 10:36:53 AM

GENERAL NOTES:

A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.

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E. ALL SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH FITTINGS MATCH.

F. REFER TO SHEET P400 FOR PLUMBING FIXTURE TYPES.

G. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS.

H. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS.

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J. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

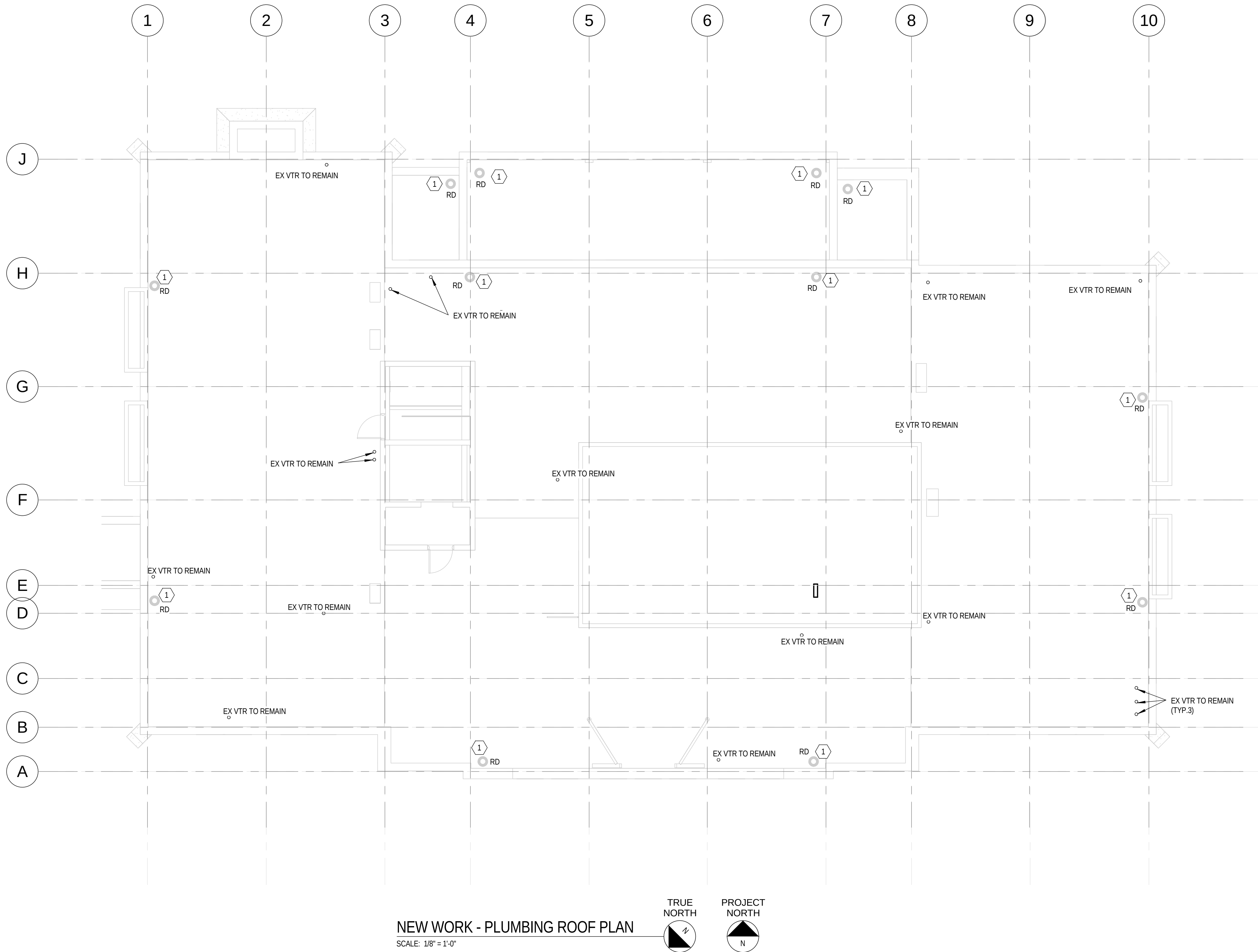
K. CONTRACTOR SHALL REMOVE ALL PIPING THAT IS NOT IN THE FINAL ARRANGEMENT.

L. FIRE STOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATION OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH PENETRATION" ASSEMBLIES.

M. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

DRAWING NOTES:

1. REPLACE EXISTING ROOF DRAIN WITH NEW. FURNISH AND INSTALL ROOF DRAIN, JAY R. SMITH MODEL 1015 OR APPROVED EQUAL. COORDINATE WITH NEW ROOF AND EXISTING CONDITIONS.



NEW WORK - PLUMBING ROOF PLAN

SCALE: 1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

Xavier University

Logan Hall

Renovation

3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



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DWG TITLE

NEW WORK
PLUMBING
ROOF PLAN

SHEET NO.

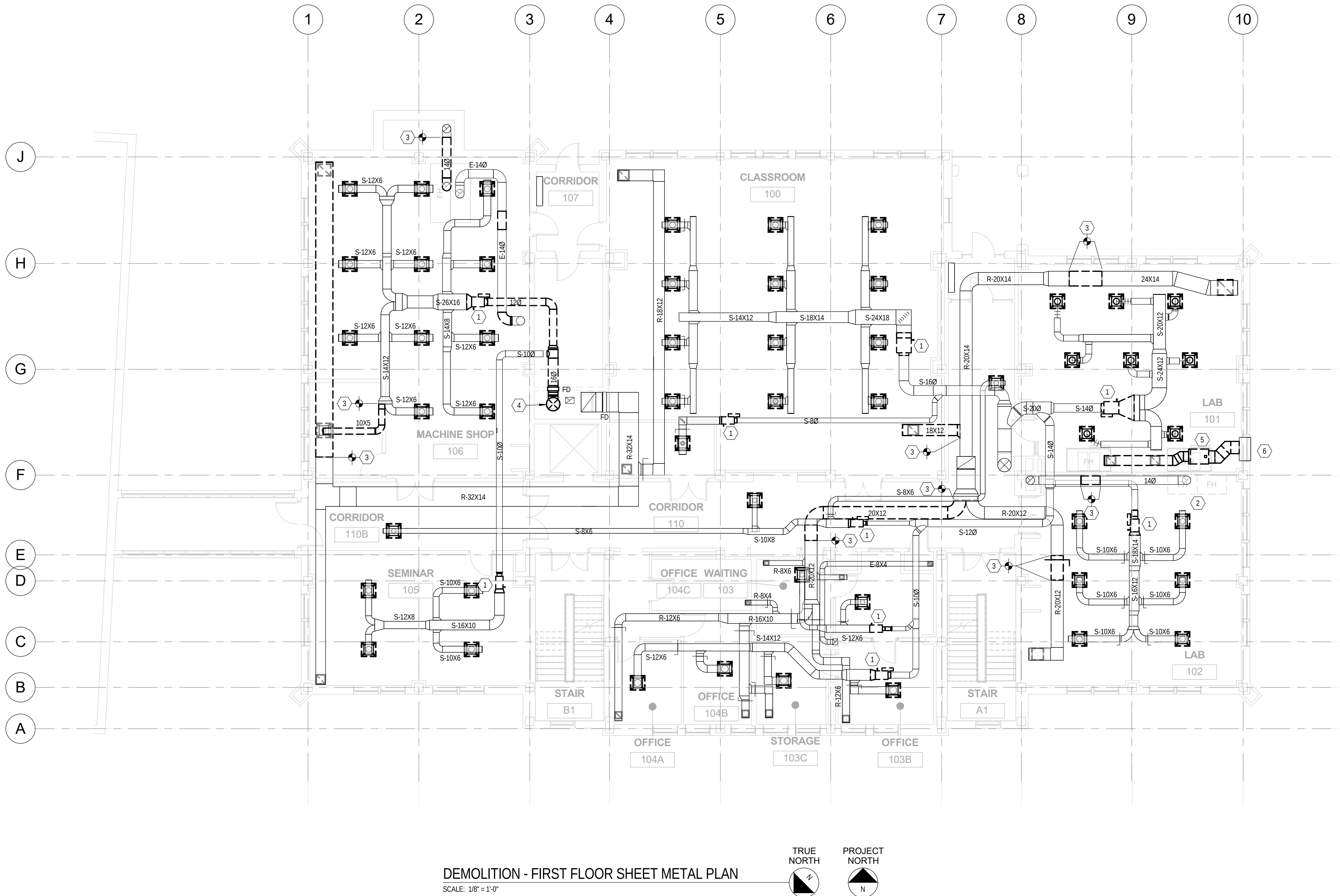
P104

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DASHED AND DARK IS TO BE REMOVED.
- B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK.
- C. REFER TO M200 FOR GENERAL NOTES AND ABBREVIATIONS.
- D. CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING.
- E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.
- F. CONTRACTOR TO REMOVE ALL TERMINAL AIR DEVICES AND FLEX DUCTWORK BACK TO BRANCH DUCT FOR REPLACEMENT IN NEW WORK.
- G. CONTRACTOR TO REMOVE ANY PNEUMATIC CONTROL DAMPERS IN SUPPLY, RETURN, OR EXHAUST DUCTWORK AND PATCH DUCT TO MATCH EXISTING.

DRAWING NOTES:

1. REMOVE EXISTING VAV BOX AND ASSOCIATED SUPPORTS, TRANSITIONS, HOT WATER COILS, CONTROL VALVES, AND CONTROLS. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL UNIT INFORMATION.
2. DISCONNECT EXHAUST DUCT, GAS, WATER, AIR, WASTE/DRAIN, ALL UTILITIES FROM FUME HOOD PRIOR TO REMOVAL. REMOVAL/DISPOSAL OF FUME HOODS BY OTHERS.
3. REMOVE DUCTWORK TO POINTS SHOWN.
4. REMOVE EXISTING SUPPLY DUCT TO ROOF. COORDINATE DEMOLITION OF CHASE.
5. REMOVE EXHAUST FAN IN ITS ASSOCIATED SUPPORTS, TRANSITIONS, DUCTWORK, AIR DEVICES, AND CONTROLS. REMOVE EXISTING LOUVER.
6. LOUVER TO BE REPLACED WITH SPANDEL BY OTHERS.



Xavier University
Logan Hall
Renovation

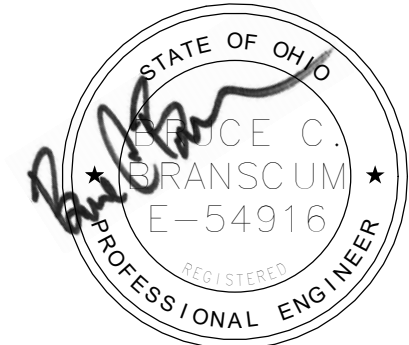
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DWG TITLE

**DEMOLITION
FIRST FLOOR
SHEET METAL
PLAN**

SHEET NO.

MSD101

- GENERAL NOTES:

A.

UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DASHED AND DARK IS TO BE REMOVED.

B.

CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK.

C.

REFER TO M200 FOR GENERAL NOTES AND ABBREVIATIONS.

D.

CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING.

E.

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F.

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G.

CONTRACTOR TO REMOVE ANY PNEUMATIC CONTROL DAMPERS IN SUPPLY, RETURN, OR EXHAUST DUCTWORK AND PATCH DUCT TO MATCH EXISTING.
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2.

DISCONNECT EXHAUST DUCT, GAS, WATER, AIR, WASTE/DRAIN, ALL UTILITIES FROM FUME HOOD PRIOR TO REMOVAL. REMOVAL/DISPOSAL OF FUME HOODS BY OTHERS.

3.

EXISTING TO REMAIN.

4.

REMOVE EXISTING SUPPLY DUCT TO ROOF. COORDINATE DEMOLITION OF CHASE.

5.

REMOVE EXISTING AIR VALVE AND ASSOCIATED CONTROLS. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL UNIT INFORMATION.

6.

REMOVE 2ND FLOOR NORTH RETURN DUCTWORK IN ITS ENTIRETY BACK TO NORTH CHASE AS INDICATED AND CAP.

7.

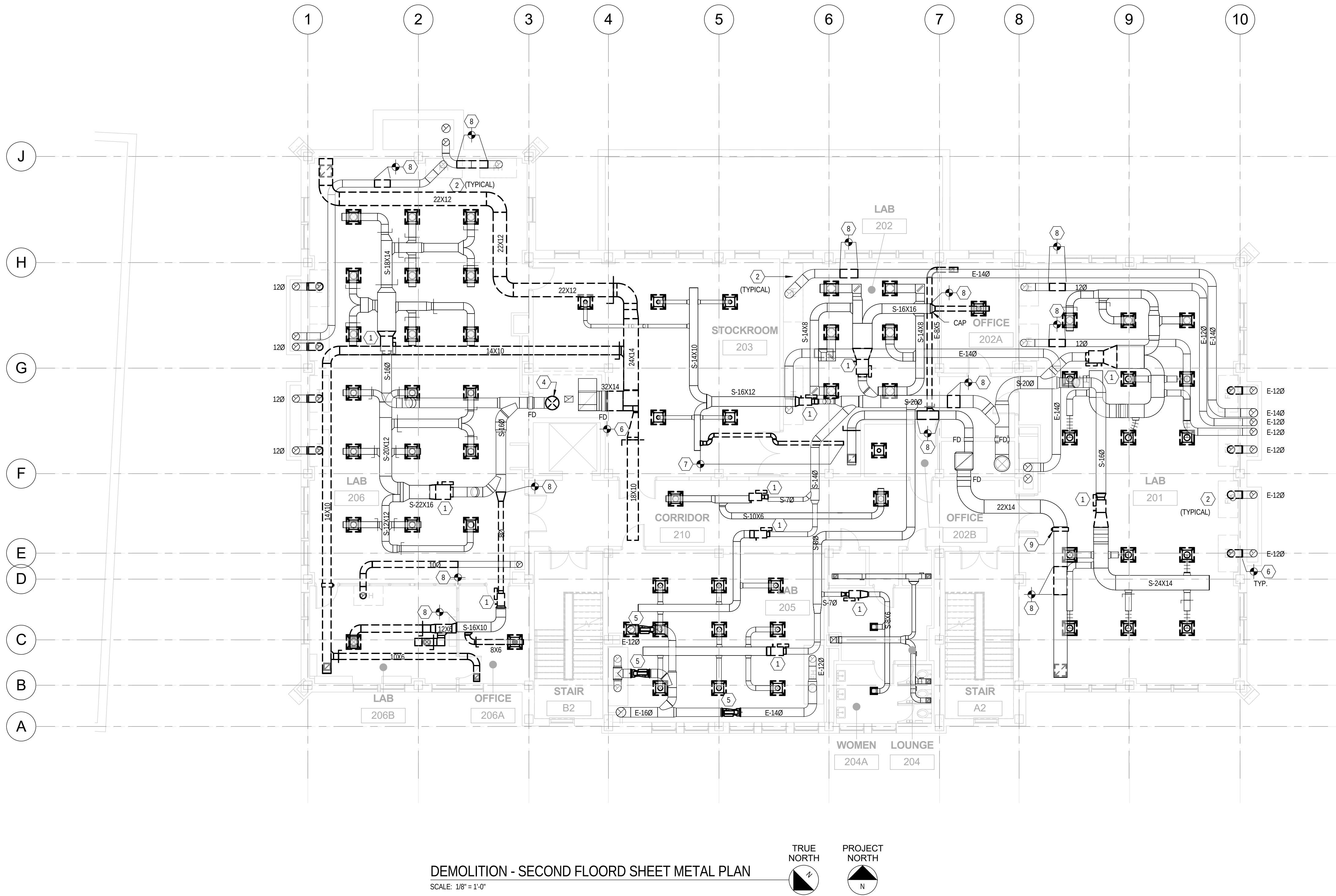
DIFFUSER BRANCH SERVING OFFICE 202B IS TO BE REMOVED TO POINTS SHOWN. PATCH DUCT MAIN TO MATCH EXISTING.

8.

REMOVE DUCTWORK TO POINTS SHOWN.

9.

REFER TO GENERAL NOTE G.



DEMOLITION - SECOND FLOORD SHEET METAL PLAN
SCALE: 1/8" = 1'-0"

Xavier University
Logan Hall
Renovation

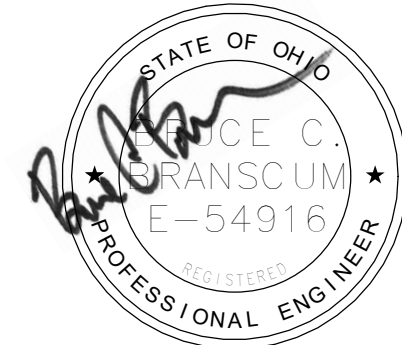
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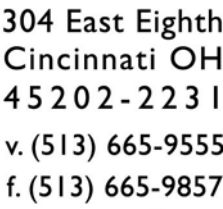
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DEMOLITION
SECOND FLOOR
SHEET METAL
PLAN

SHEET NO.

MSD102

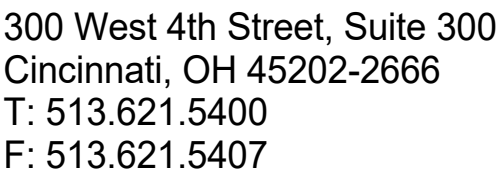
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1	3/07/2017	FOR BIDDING AND PERMIT

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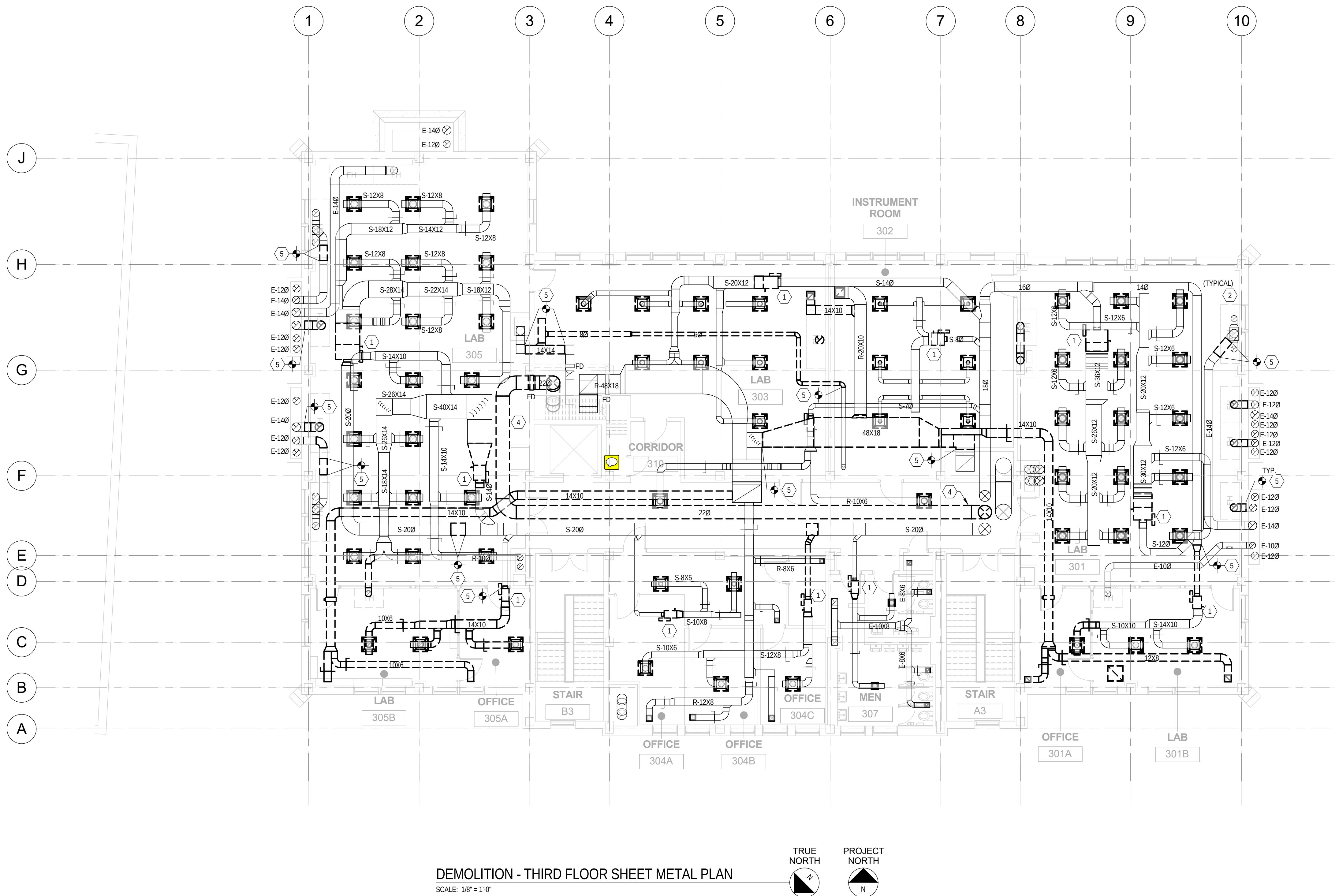
MSD103

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DASHED AND DARK IS TO BE REMOVED.
- B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK.
- C. REFER TO M200 FOR GENERAL NOTES AND ABBREVIATIONS.
- D. CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR JO MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING.
- E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.
- F. CONTRACTOR TO REMOVE ALL TERMINAL AIR DEVICES AND FLEX DUCTWORK BACK TO BRANCH DUCT FOR REPLACEMENT IN NEW WORK.
- G. CONTRACTOR TO REMOVE ANY PNEUMATIC CONTROL DAMPERS IN SUPPLY, RETURN, OR EXHAUST DUCTWORK AND PATCH DUCT TO MATCH EXISTING.

DRAWING NOTES:

1. REMOVE EXISTING VAV BOX AND ASSOCIATED SUPPORTS, TRANSITIONS, HOT WATER COILS, CONTROL VALVES, AND CONTROLS. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL UNIT INFORMATION.
2. DISCONNECT EXHAUST DUCT, GAS, WATER, AIR, WASTE/DRAIN, ALL UTILITIES FROM FUME HOOD PRIOR TO REMOVAL. REMOVE/DISPOSAL OF FUME HOODS BY OTHERS.
3. EXISTING TO REMAIN.
4. REMOVE EXISTING SUPPLY DUCT TO ROOF. COORDINATE DEMOLITION OF CHASE.
5. REMOVE DUCTWORK TO POINTS SHOWN.



DEMOLITION - THIRD FLOOR SHEET METAL PLAN

SCALE: 1/8" = 1'-0"



PRINT DATE: 3/6/2017 11:54:41 AM

Xavier University
Logan Hall
Renovation

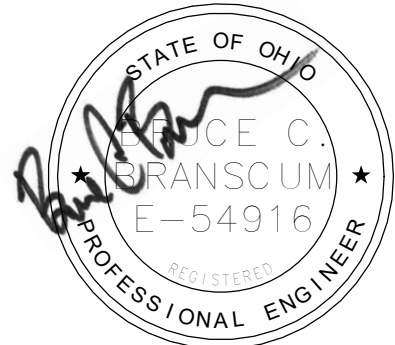
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DEMOLITION
SHEET METAL
ROOF PLAN

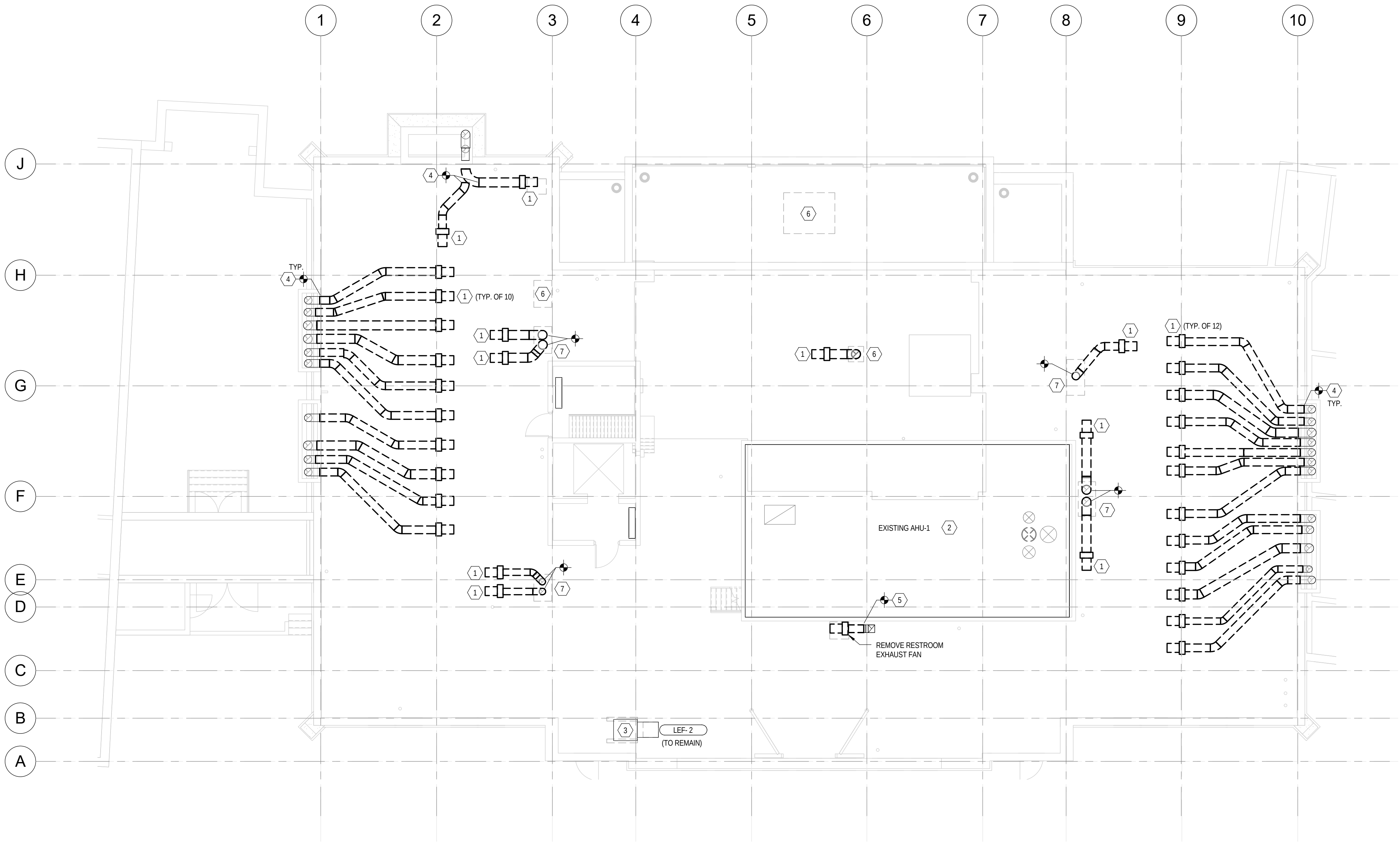
MSD104

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DASHED AND DARK IS TO BE REMOVED.
- B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK.
- C. REFER TO M200 FOR GENERAL NOTES AND ABBREVIATIONS.
- D. CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING.
- E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.
- F. CONTRACTOR TO REMOVE ALL TERMINAL AIR DEVICES AND FLEX DUCTWORK BACK TO BRANCH DUCT FOR REPLACEMENT IN NEW WORK.
- G. CONTRACTOR TO REMOVE ANY PNEUMATIC CONTROL DAMPERS IN SUPPLY, RETURN, OR EXHAUST DUCTWORK AND PATCH DUCT TO MATCH EXISTING.

DRAWING NOTES:

1. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED SUPPORTS, CURB(S), POWER, AND CONTROLS. REMOVE ASSOCIATED DUCTWORK TO POINT SHOWN FOR RECONNECTION IN NEW WORK.
2. EXISTING AHU CABINET TO REMAIN. REMOVE COILS, FANS, AND ASSOCIATED POWER AND CONTROLS. EXISTING HOT / CHILLED WATER AND DUCTWORK TO REMAIN TO SERVE NEW UNIT.
3. EXISTING TO REMAIN.
4. REMOVE DUCTWORK TO POINTS SHOWN.
5. REMOVE EXISTING EXHAUST FAN ASSOCIATED CURB FOR FAN. CURB FOR EXHAUST DUCT AS WELL AS POWER AND CONTROLS TO REMAIN.
6. REMOVE EXISTING CURB AND INFILL OPENING.
7. REMOVE EXISTING CURB AND REPLACE WITH NEW.



DEMOLITION - SHEET METAL ROOF PLAN
SCALE: 1/8" = 1'-0"

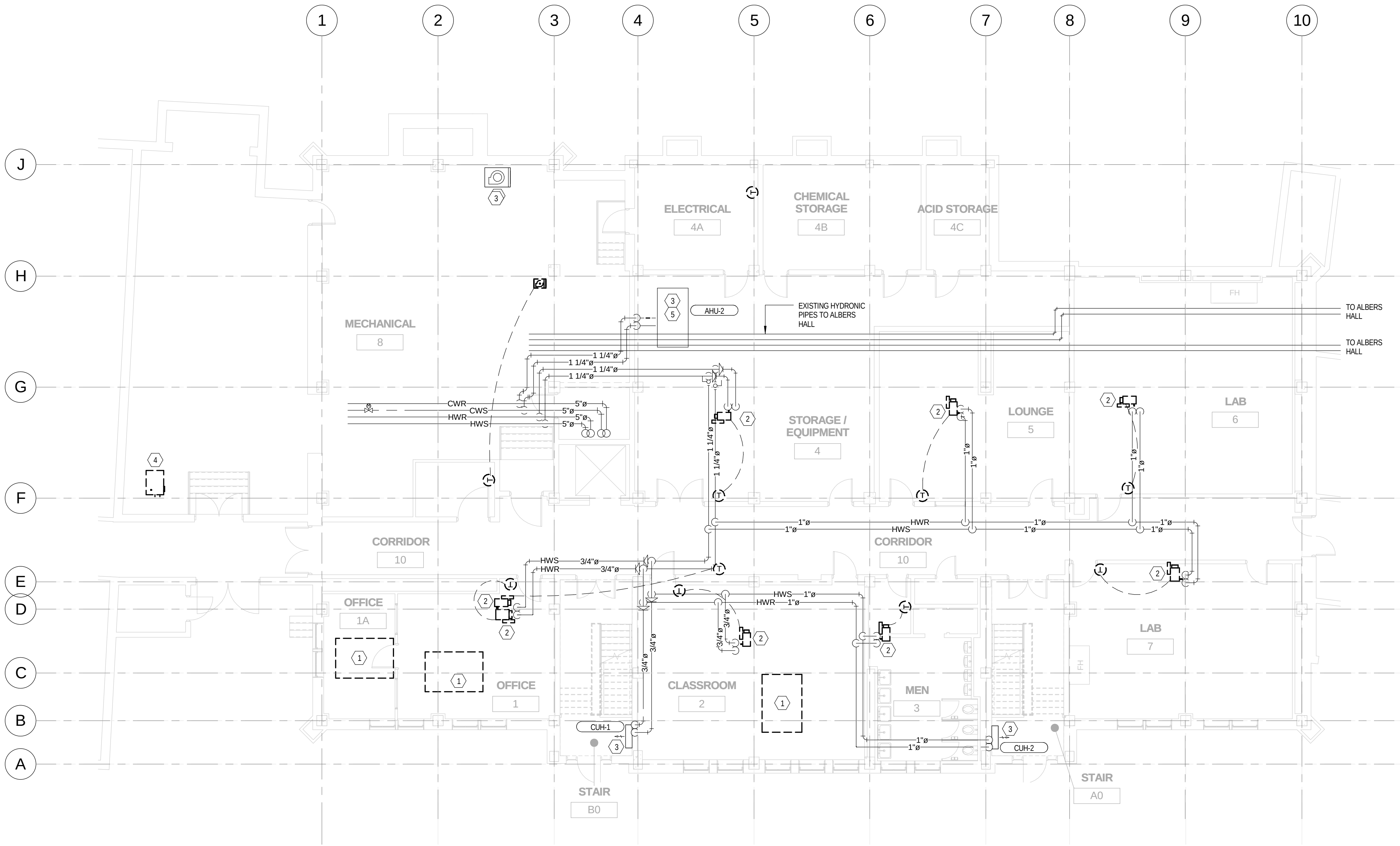


GENERAL NOTES:

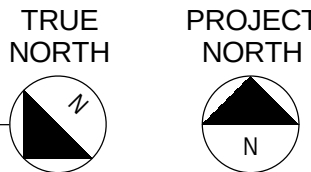
- A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN DASHED AND DARK IS TO BE REMOVED.
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- C. REFER TO M200 FOR LEGEND AND ABBREVIATIONS.
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- E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.

DRAWING NOTES:

1. REMOVE EXISTING A/C SYSTEM ABOVE CEILING AND ASSOCIATED DUCTWORK, TERMINAL DEVICES, SUPPORTS, INSULATION, AND CONTROLS. REMOVE CONDENSATE PUMP AND ASSOCIATED PIPING. CAP, INSULATE, AND SEAL PLENUM BOXES ABOVE WINDOWS.
2. REMOVE EXISTING VAV BOX AND ASSOCIATED SUPPORTS, HOT WATER COILS, CONTROL VALVES, AND CONTROLS. REMOVE BRANCH PIPING AS NECESSARY TO ACCOMMODATE NEW TRIM. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL INFORMATION.
3. EXISTING TO REMAIN.
4. REMOVE EXISTING HEATING HOT WATER BOILER IN ITS ENTIRETY AND CAP HOT WATER PIPING.
5. REMOVE / REPLACE EXISTING CONTROLS WITH NEW.



DEMOLITION - LOWER LEVEL MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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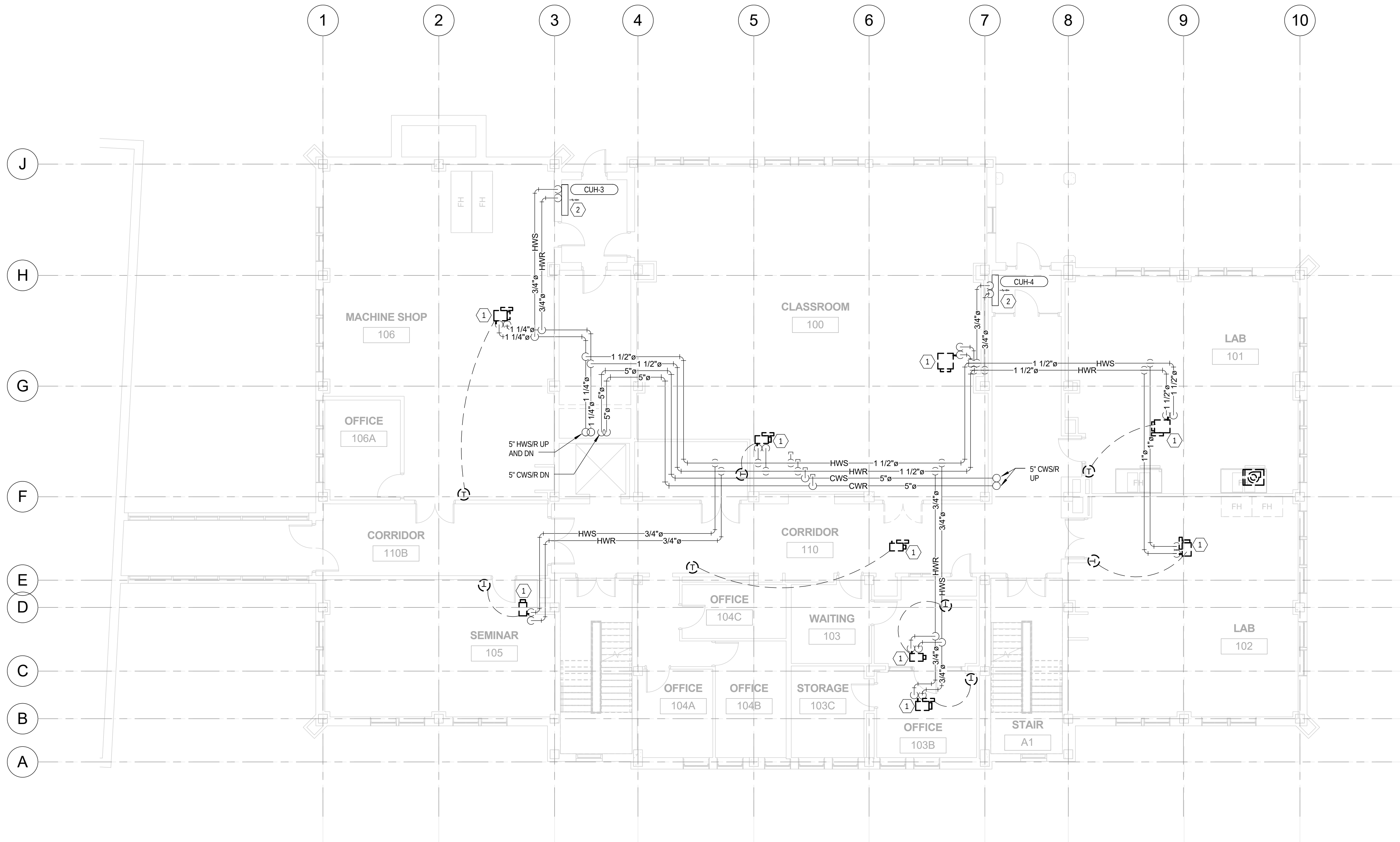
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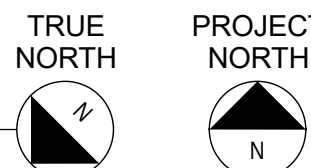
DWG TITLE
**DEMOLITION
LOWER LEVEL
MECHANICAL
PIPING PLAN**

SHEET NO.
MPD100

GENERAL NOTES:	DRAWING NOTES:
A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN DASHED AND DARK IS TO BE REMOVED. B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK. C. REFER TO M200 FOR LEGEND AND ABBREVIATIONS. D. CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING. E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.	1. REMOVE EXISTING VAV BOX AND ASSOCIATED SUPPORTS, HOT WATER COILS, CONTROL VALVES, AND CONTROLS. REMOVE BRANCH PIPING AS NECESSARY TO ACCOMODATE NEW TRIM. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL INFROMATION. 2. EXISTING TO REMAIN.



DEMOLITION - FIRST FLOOR MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

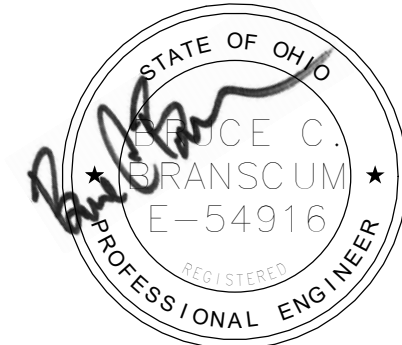
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DEMOLITION
FIRST FLOOR
MECHANICAL
PIPING PLAN

MPD101

GENERAL NOTES:	DRAWING NOTES:
A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN DASHED AND DARK IS TO BE REMOVED. B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK. C. REFER TO M200 FOR LEGEND AND ABBREVIATIONS. D. CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING. E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.	1. REMOVE EXISTING VAV BOX AND ASSOCIATED SUPPORTS, HOT WATER COILS, CONTROL VALVES, AND CONTROLS. REMOVE BRANCH PIPING AS NECESSARY TO ACCOMODATE NEW TRIM. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL INFROMATION.

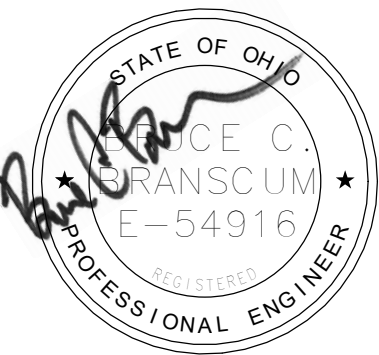
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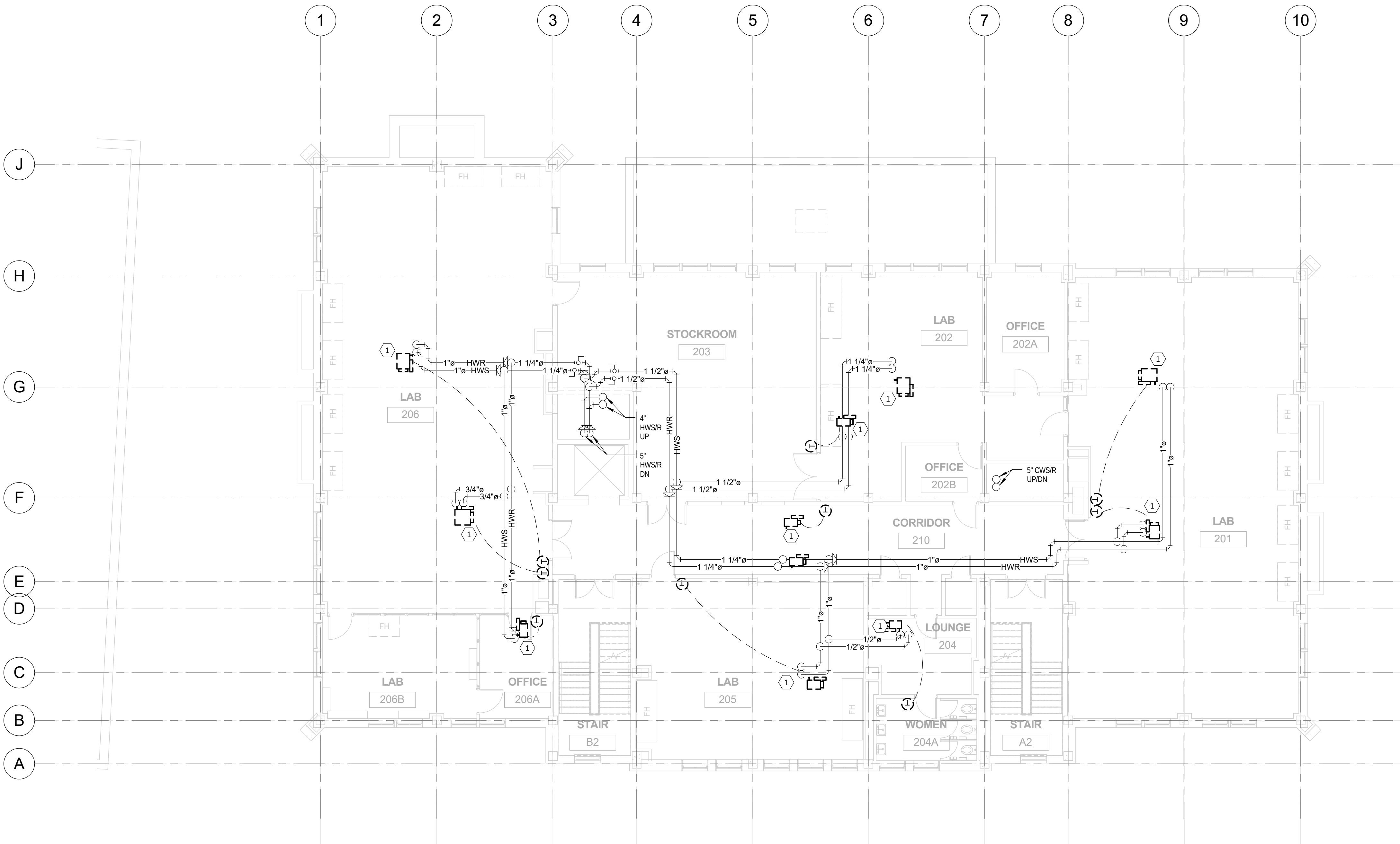
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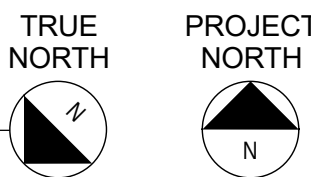
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03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**DEMOLITION
SECOND FLOOR
MECHANICAL
PIPING PLAN**

SHEET NO.
MPD102



DEMOLITION - SECOND FLOOR MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

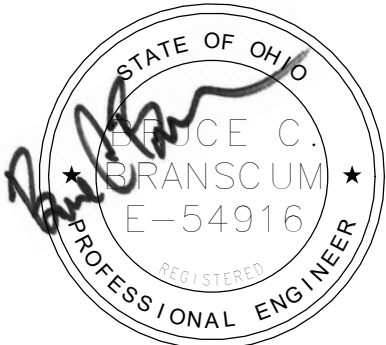
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DEMOLITION
THIRD FLOOR
MECHANICAL
PIPING PLAN

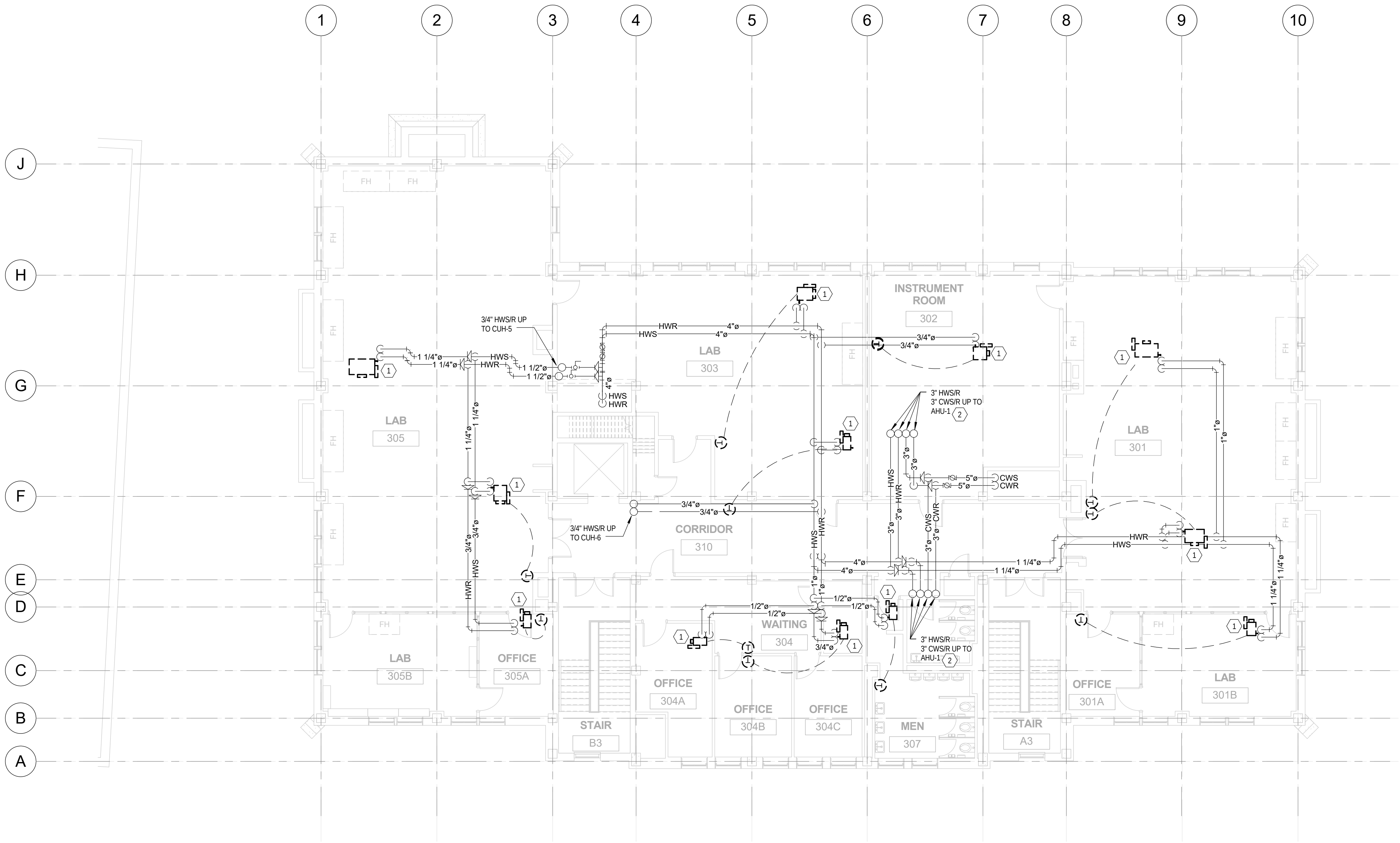
MPD103

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN DASHED AND DARK IS TO BE REMOVED.
- B. CONTRACTOR TO COORDINATE DEMOLITION WITH OTHER TRADES BEFORE BEGINNING WORK.
- C. REFER TO M200 FOR LEGEND AND ABBREVIATIONS.
- D. CONTRACTOR SHALL PATCH AND REPAIR ALL HOLES, DAMAGE OR OR MODIFICATIONS LEFT BY REMOVAL OF DUCTWORK AND REPAIR WALLS, FLOORS, CEILINGS, ETC. TO MATCH EXISTING. ALL PATCHING AND FINISHING SHALL BE PERFORMED BY A QUALIFIED TRADESPERSON. ALL DEMOLITION WORK AND INSTALLATION SHOULD BE COORDINATED WITH OWNER PRIOR TO BEGINNING.
- E. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH OWNER'S REPRESENTATIVE FOR SALVAGE OR DISPOSAL.

DRAWING NOTES:

- 1. REMOVE EXISTING VAV BOX AND ASSOCIATED SUPPORTS, HOT WATER COILS, CONTROL VALVES, AND CONTROLS. REMOVE BRANCH PIPING AS NECESSARY TO ACCOMODATE NEW TRIM. SEE NEW WORK DRAWINGS FOR REPLACEMENT TERMINAL INFORMATION.
- 2. EXISTING HOT WATER AND CHILLED WATER UP TO UNIT ON ROOF TO REMAIN TO SERVE NEW COILS. DISCONNECT AS NECESSARY AT UNIT FOR REMOVAL OF EXISTING COILS.



DEMOLITION - THIRD FLOOR MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

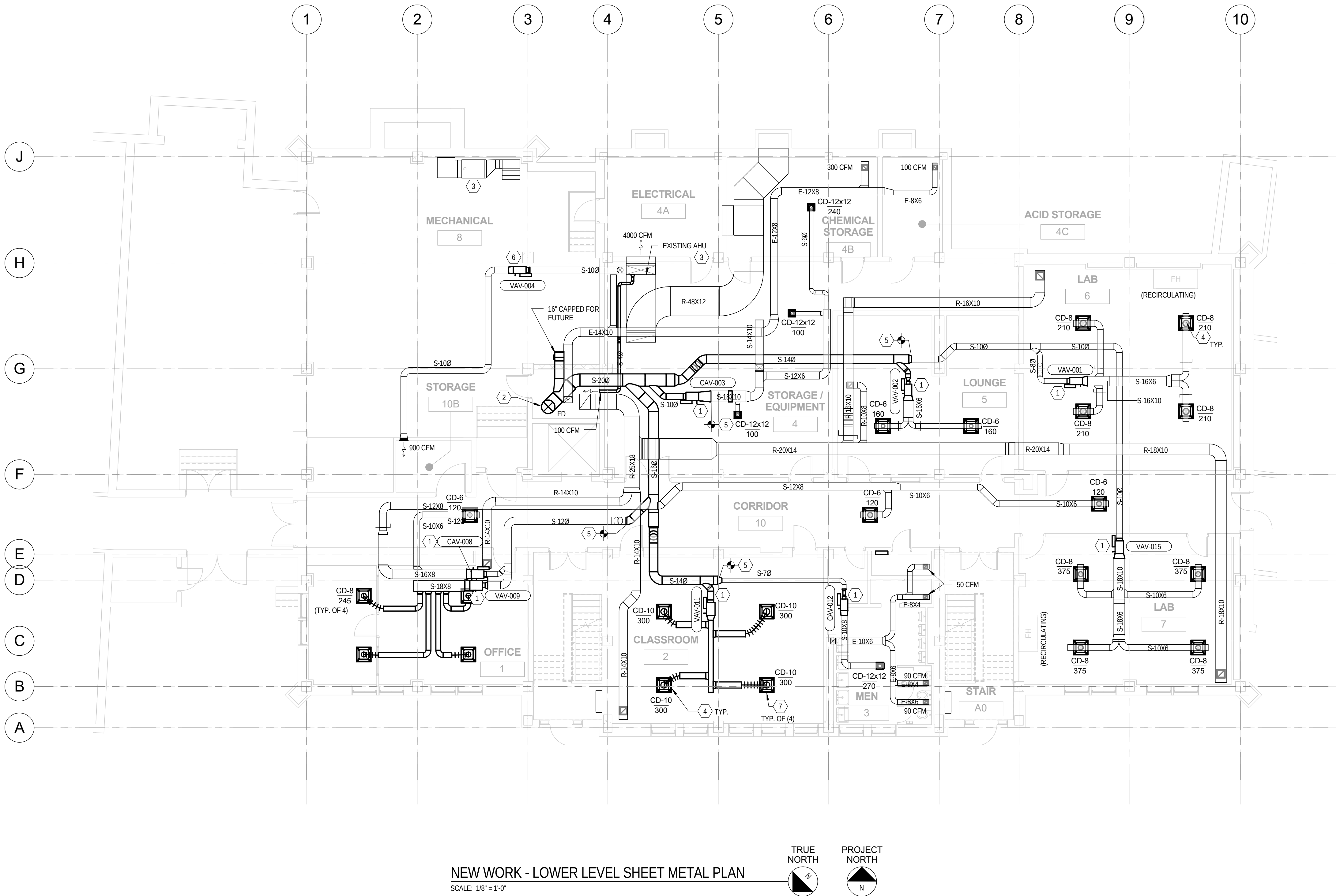


GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DARK IS TO BE INSTALLED NEW.
- B. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 MECHANICAL CODE AND ALL APPLICABLE CODES.
- C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.
- D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- E. REFER TO DRAWINGS M200, M300, AND M400 FOR MECHANICAL DETAILS, DIAGRAMS, AND SCHEDULES.
- F. CONTRACTOR SHALL COORDINATE DUCTWORK PATHWAY AND LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. ALL DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK. REFER TO DETAIL ON DRAWING M200 FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.
- G. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLES.
- H. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED.
- I. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING M200 FOR ADDITIONAL REQUIREMENTS.
- J. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL AND ALL EXHAUST DUCTWORK SHALL BE FABRICATED FROM _____. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT. 3" W.G. PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE WITH CHAPTER 13 OF THE OBC.
- K. DUCTWORK CONNECTION TO THE DIFFUSER TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE.
- L. DUCTWORK SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, PIPING, ETC.
- M. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.
- N. GENERAL EXHAUST AIR VALVES AND FUME HOOD EXHAUST AIR VALVES ARE SHOWN AS PLACEHOLDERS IN LAB SPACES. CONTRACTOR TO INCLUDE PRICING FOR CONVERTING RETURN DUCT IN LABS CONTAINING FUME HOODS TO EXHAUST.
- O. ALL EXISTING TERMINAL AIR DEVICES TO BE REPLACED WITH NEW.

DRAWING NOTES:

1. NEW VAV BOX WITH HOT WATER COIL - TRANSITION DUCTWORK AS NECESSARY TO CONNECT TO EXISTING DUCTWORK. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
2. NEW 22" DUCT UP. 3" WG PRESSURE CLASS, GALVANIZED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. COORDINATE RELOCATION OF EXISTING TO ACCOMMODATE NEW DUCT. PROVIDE FIRE DAMPER AT FLOOR PENETRATION ABOVE.
3. EXISTING TO REMAIN.
4. REBALANCE AS INDICATED.
5. CONNECT DUCTWORK AT POINT(S) SHOWN.
6. NEW VAV BOX WITHOUT HOT WATER COIL - TRANSITION DUCTWORK AS NECESSARY TO CONNECT TO EXISTING DUCTWORK. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
7. AIR DEVICE TO BE UPSIZED TO NECK SIZE INDICATED ON DRAWINGS TO SATISFY GREATER AIR FLOW REQUIREMENT. TRANSITION DUCTWORK AS NECESSARY FOR CONNECTION TO EXISTING MAIN.



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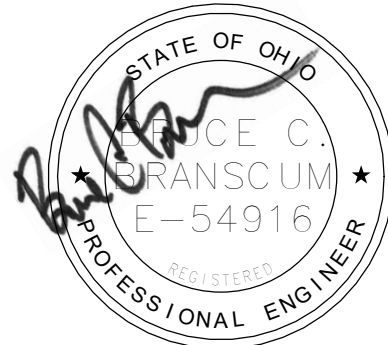
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NEW WORK
FIRST FLOOR
SHEET METAL
PLAN

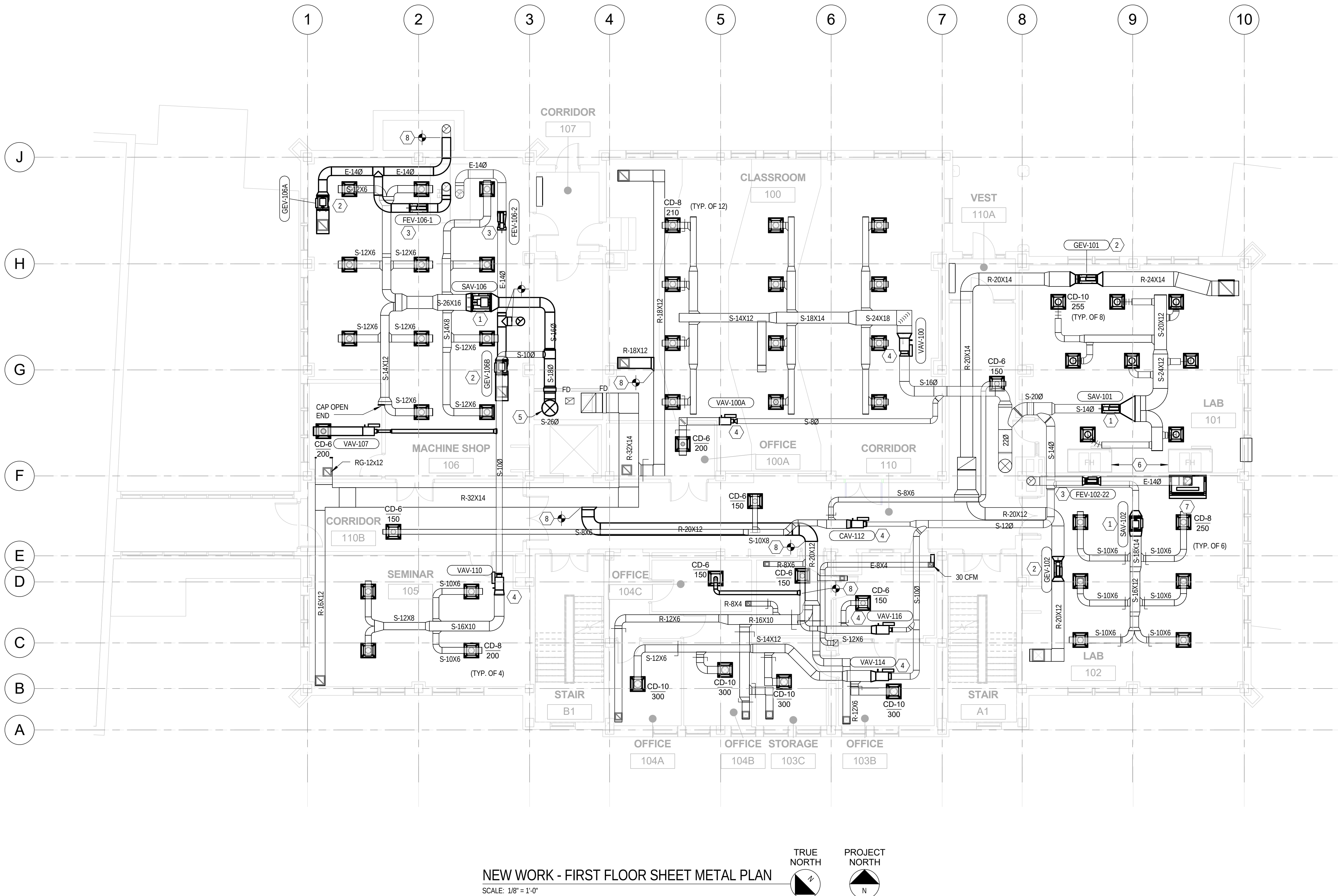
MS101

GENERAL NOTES:

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- B. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 MECHANICAL CODE AND ALL APPLICABLE CODES.
- C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.
- D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
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- G. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLES.
- H. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED.
- I. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING M200 FOR ADDITIONAL REQUIREMENTS.
- J. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL AND ALL EXHAUST DUCTWORK SHALL BE FABRICATED FROM _____. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT. 3" WG PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE WITH CHAPTER 13 OF THE OBC.
- K. DUCTWORK CONNECTION TO THE DIFFUSER TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE.
- L. DUCTWORK SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, PIPING, ETC.
- M. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.
- N. GENERAL EXHAUST AIR VALVES AND FUME HOOD EXHAUST AIR VALVES ARE SHOWN AS PLACEHOLDERS IN LAB SPACES. CONTRACTOR TO INCLUDE PRICING FOR CONVERTING RETURN DUCT IN LABS CONTAINING FUME HOODS TO EXHAUST.
- O. ALL EXISTING TERMINAL AIR DEVICES TO BE REPLACED WITH NEW.

DRAWING NOTES:

1. PROVIDE NEW VAV VENTURI SUPPLY AIR VALVE COMPLETE WITH HOT WATER REHEAT COIL. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED. 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE WALL SENSOR / THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
2. PROVIDE NEW VAV VENTURI EXHAUST AIR VALVE COMPLETE WITH RETURN AIR GRILLES SIZED FOR 500 FPM MAXIMUM. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED. 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE WALL SENSOR / THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
3. PROVIDE NEW VAV VENTURI FUME HOOD EXHAUST AIR VALVE. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED. 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE NEW SASH SENSOR AND FUME HOOD CONTROLLER/ALARM. INSTALL SASH SENSOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS ON NEW FUME HOOD.
4. NEW VAV BOX WITH HOT WATER COIL - TRANSITION DUCTWORK AS NECESSARY TO CONNECT TO EXISTING DUCTWORK. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
5. NEW 26" DUCT UP / 22" DUCT DOWN. 3" WG PRESSURE CLASS, GALVANIZED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. COORDINATE RELOCATION OF EXISTING TO ACCOMMODATE NEW DUCT. PROVIDE FIRE DAMPER AT CHASE PENETRATION.
6. EXISTING TO REMAIN.
7. NEW OWNER PROVIDED FUME HOOD. RECONNECT EXHAUST DUCT, GAS, WATER, AIR, WASTEDRAIN, ALL UTILITIES TO HOOD AND PROVIDE TRANSITIONS AS NECESSARY.
8. CONNECT DUCTWORK AT POINT(S) SHOWN.



NEW WORK - FIRST FLOOR SHEET METAL PLAN
SCALE: 1/8" = 1'-0"

Xavier University
Logan Hall
Renovation

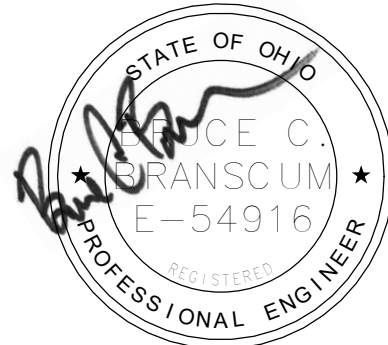
3800 Victory Parkway
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SHEET REVISION		
REV #	DATE	DESCRIPTION
1	3/07/2017	FOR BIDDING AND PERMIT

DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

NEW WORK
SECOND FLOOR
SHEET METAL
PLAN

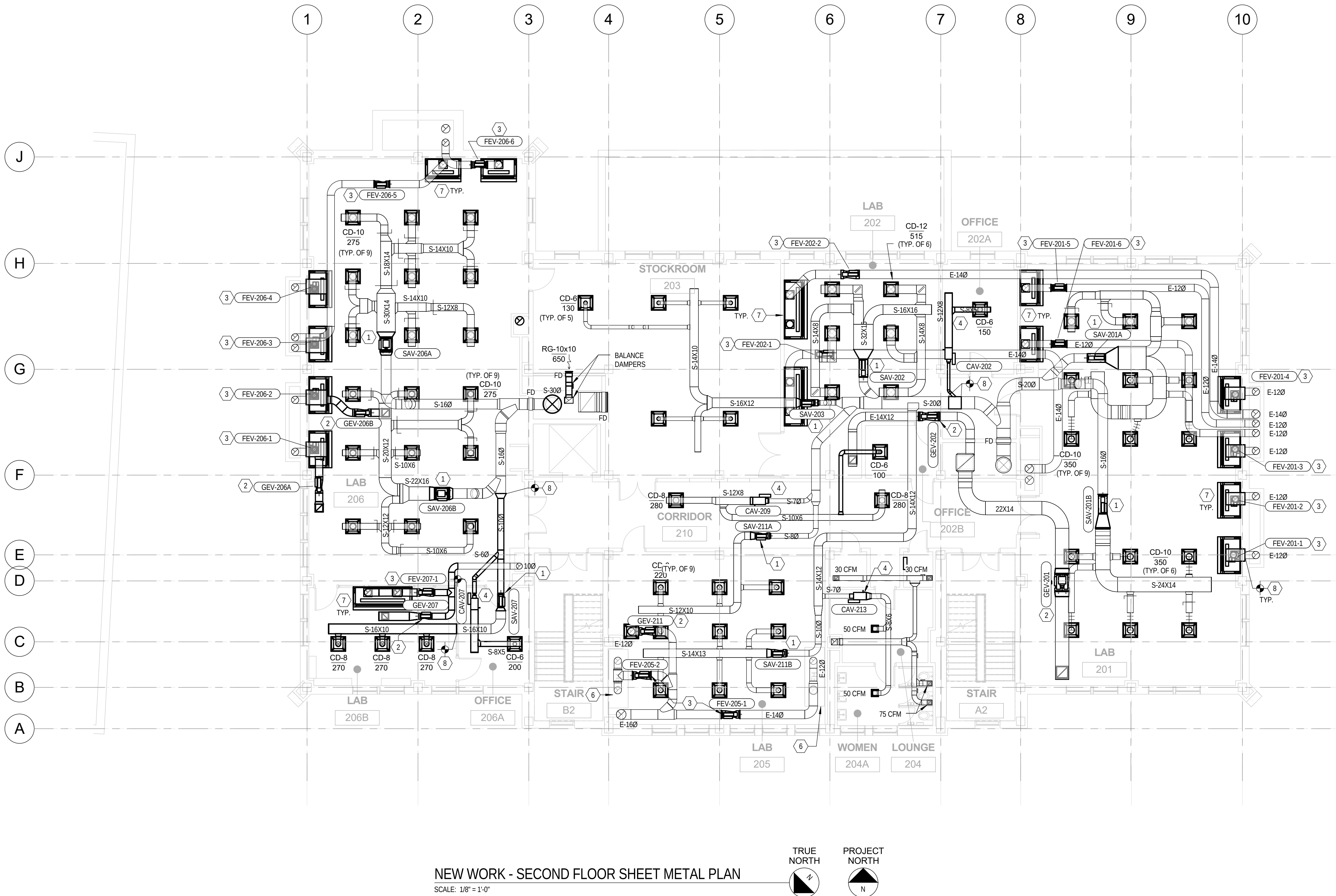
MS102

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DARK IS TO BE INSTALLED NEW.
- B. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 MECHANICAL CODE AND ALL APPLICABLE CODES.
- C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.
- D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- E. REFER TO DRAWINGS M200, M300, AND M400 FOR MECHANICAL DETAILS, DIAGRAMS, AND SCHEDULES.
- F. CONTRACTOR SHALL COORDINATE DUCTWORK PATHWAY AND LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. ALL DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK. REFER TO DETAIL ON DRAWING M200 FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.
- G. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLES.
- H. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED.
- I. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING M200 FOR ADDITIONAL REQUIREMENTS.
- J. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL AND ALL EXHAUST DUCTWORK SHALL BE FABRICATED FROM _____. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT. 3" WG PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE WITH CHAPTER 13 OF THE OBC.
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- N. GENERAL EXHAUST AIR VALVES AND FUME HOOD EXHAUST AIR VALVES ARE SHOWN AS PLACEHOLDERS IN LAB SPACES. CONTRACTOR TO INCLUDE PRICING FOR CONVERTING RETURN DUCT IN LABS CONTAINING FUME HOODS TO EXHAUST.
- O. ALL EXISTING TERMINAL AIR DEVICES TO BE REPLACED WITH NEW.

DRAWING NOTES:

1. PROVIDE NEW VAV VENTURI SUPPLY AIR VALVE COMPLETE WITH HOT WATER REHEAT COIL. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED. 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE WALL SENSOR / THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
2. PROVIDE NEW VAV VENTURI EXHAUST AIR VALVE COMPLETE WITH RETURN AIR GRILLES SIZED FOR 500 FPM MAXIMUM. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED. 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE WALL SENSOR / THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
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4. NEW VAV BOX WITH HOT WATER COIL - TRANSITION DUCTWORK AS NECESSARY TO CONNECT TO EXISTING DUCTWORK. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
5. NEW 30" DUCT UP / 26" DUCT DOWN. 3" WG PRESSURE CLASS, GALVANIZED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. COORDINATE RELOCATION OF EXISTING TO ACCOMMODATE NEW DUCT.
6. EXISTING TO REMAIN.
7. NEW OWNER PROVIDED FUME HOOD. RECONNECT EXHAUST DUCT, GAS, WATER, AIR, WASTE/DRAIN, ALL UTILITIES TO HOOD AND PROVIDE TRANSITIONS AS NECESSARY.
8. CONNECT DUCTWORK AT POINT(S) SHOWN.



NEW WORK - SECOND FLOOR SHEET METAL PLAN
SCALE: 1/8" = 1'-0"

Xavier University
Logan Hall
Renovation

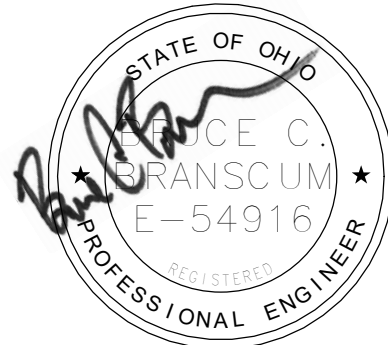
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SHEET REVISION

REV #	DATE	DESCRIPTION
1	3/07/2017	FOR BIDDING AND PERMIT

ISSUE

DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE

NEW WORK
THIRD FLOOR
SHEET METAL
PLAN

SHEET NO.

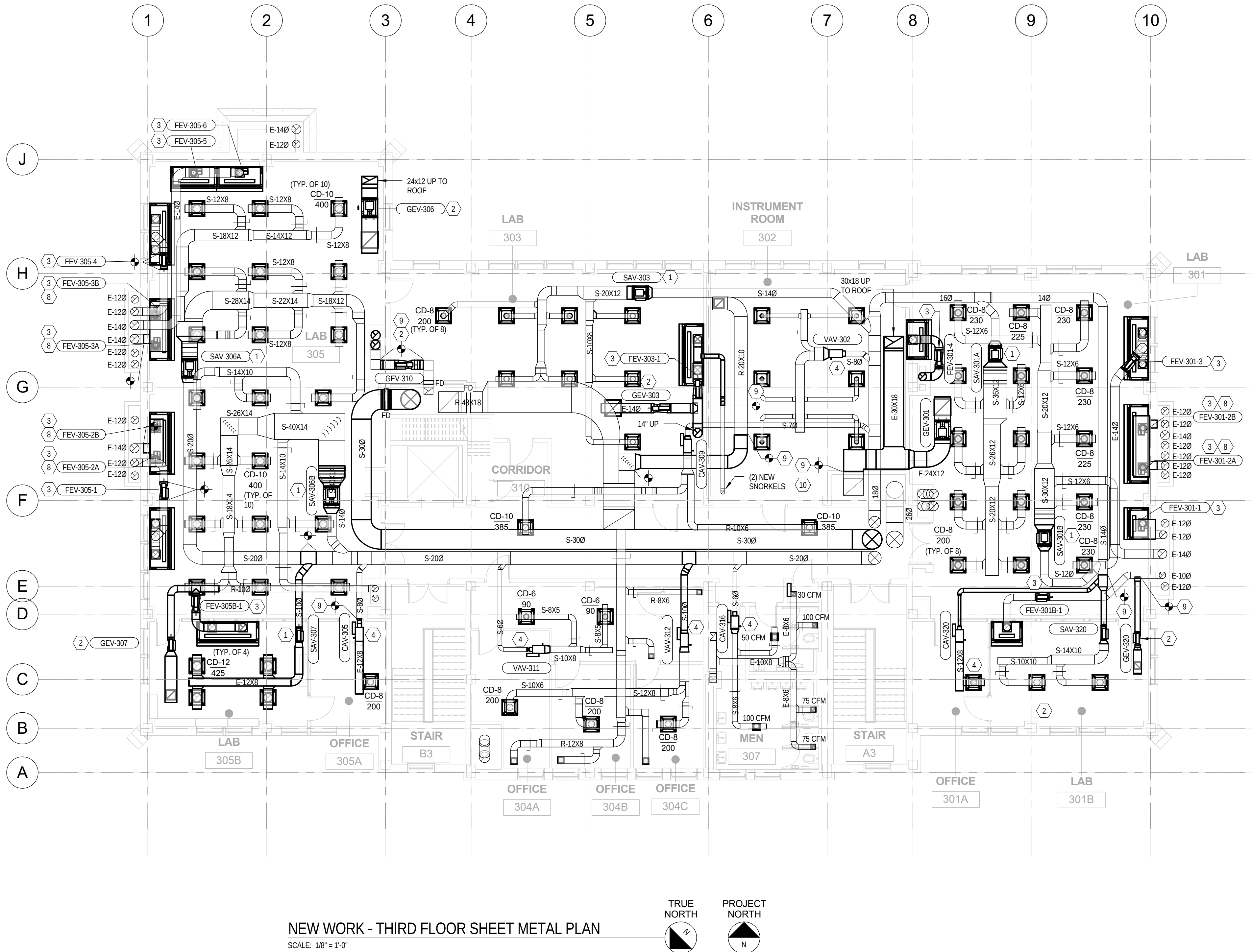
MS103

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DARK IS TO BE INSTALLED NEW.
- B. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 MECHANICAL CODE AND ALL APPLICABLE CODES.
- C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.
- D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- E. REFER TO DRAWINGS M200, M300, AND M400 FOR MECHANICAL DETAILS, DIAGRAMS, AND SCHEDULES.
- F. CONTRACTOR SHALL COORDINATE DUCTWORK PATHWAY AND LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. ALL DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK. REFER TO DETAIL ON DRAWING M200 FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.
- G. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLES.
- H. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED.
- I. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING M200 FOR ADDITIONAL REQUIREMENTS.
- J. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL AND ALL EXHAUST DUCTWORK SHALL BE FABRICATED FROM _____. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT. 3" W.G. PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE WITH CHAPTER 13 OF THE OBC.
- K. DUCTWORK CONNECTION TO THE DIFFUSER TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE.
- L. DUCTWORK SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, PIPING, ETC.
- M. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.
- N. GENERAL EXHAUST AIR VALVES AND FUME HOOD EXHAUST AIR VALVES ARE SHOWN AS PLACEHOLDERS IN LAB SPACES. CONTRACTOR TO INCLUDE PRICING FOR CONVERTING RETURN DUCT IN LABS CONTAINING FUME HOODS TO EXHAUST.
- O. ALL EXISTING TERMINAL AIR DEVICES TO BE REPLACED WITH NEW.

DRAWING NOTES:

1. PROVIDE NEW VAV VENTURI SUPPLY AIR VALVE COMPLETE WITH HOT WATER REHEAT COIL. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED, 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE WALL SENSOR / THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
2. PROVIDE NEW VAV VENTURI EXHAUST AIR VALVE COMPLETE WITH RETURN AIR GRILLES SIZED FOR 500 FPM MAXIMUM. PROVIDE NEW DUCTWORK AS REQUIRED TO ACCOMMODATE NEW TERMINAL UNIT. NEW DUCT TO BE GALVANIZED, 3" WG PRESSURE CLASS INSULATED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. PROVIDE NEW DDC CONTROLS FROM VENTURI VALVE SUPPLIER TO CONTROL SUPPLY AIR VALVE, RE-HEAT COIL, GENERAL EXHAUST VALVE, AND FUME HOOD EXHAUST VALVES TO MAINTAIN NEGATIVE PRESSURE RELATIVE TO ADJACENT SPACES. PROVIDE WALL SENSOR / THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
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4. NEW VAV BOX WITH HOT WATER COIL - TRANSITION DUCTWORK AS NECESSARY TO CONNECT TO EXISTING DUCTWORK. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
5. NEW 28" DUCT UP TO ROOF. 3" WG PRESSURE CLASS, GALVANIZED WITH 1.5" EXTERNAL WRAP FIBERGLASS INSULATION. COORDINATE RELOCATION OF EXISTING TO ACCOMMODATE NEW DUCT.
6. EXISTING TO REMAIN.
7. NEW OWNER PROVIDED FUME HOOD. RECONNECT EXHAUST DUCT, GAS, WATER, AIR, WASTE/DRAIN, ALL UTILITIES TO HOOD AND PROVIDE TRANSITIONS AS NECESSARY.
8. (2) VAV VENTURI FUME HOOD EXHAUST AIR VALVES SERVING THE SAME HOOD ARE TO BE INTERLOCKED TO OPERATE SIMULTANEOUSLY.
9. CONNECT DUCTWORK AT POINT(S) SHOWN.
10. PROVIDE (2) SNORKEL EXHAUST DUCTS WITH BELL MOUTH, OPERABLE DAMPER, AND ARTICULATING ARM.



NEW WORK - THIRD FLOOR SHEET METAL PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DARK IS TO BE INSTALLED NEW.

B. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 MECHANICAL CODE AND ALL APPLICABLE CODES.

C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.

D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.

E. REFER TO DRAWINGS M200, M300, AND M400 FOR MECHANICAL DETAILS, DIAGRAMS, AND SCHEDULES.

F. CONTRACTOR SHALL COORDINATE DUCTWORK PATHWAY AND LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. ALL DUCTWORK SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. CONNECTIONS TO THE SUPPLY AIR DEVICES MAY BE MADE WITH FLEXIBLE DUCTWORK. REFER TO DETAIL ON DRAWING M200 FOR FLEXIBLE DUCT CONNECTIONS. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATED MATERIAL.

G. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING ALL SUPPLY AND EXHAUST GRILLES.

H. ALL DAMPERS AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTORS SHALL PROVIDE ACCESS PANELS AS REQUIRED.

I. ALL NEW VARIABLE AIR VOLUME TERMINAL UNITS ARE TO BE INSTALLED WHERE COMPONENTS ARE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL COORDINATE TO PROVIDE THE VAV UNIT WITH A CONTROL ENCLOSURE AND PIPE CONNECTIONS ON THE MOST ACCESSIBLE SIDE OF THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT LEFT TO RIGHT HAND CONFIGURATION. REFER TO THE APPLICABLE DETAIL ON DRAWING M200 FOR ADDITIONAL REQUIREMENTS.
- J. UNLESS OTHERWISE NOTED, ALL SUPPLY / RETURN DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL METAL AND ALL EXHAUST DUCTWORK SHALL BE FABRICATED FROM _____. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT; 3" W.G. PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED AND FASTENED AND MADE AIRTIGHT IN ACCORDANCE WITH CHAPTER 13 OF THE OBC.

K. DUCTWORK CONNECTION TO THE DIFFUSER TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE.

L. DUCTWORK SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, PIPING, ETC.

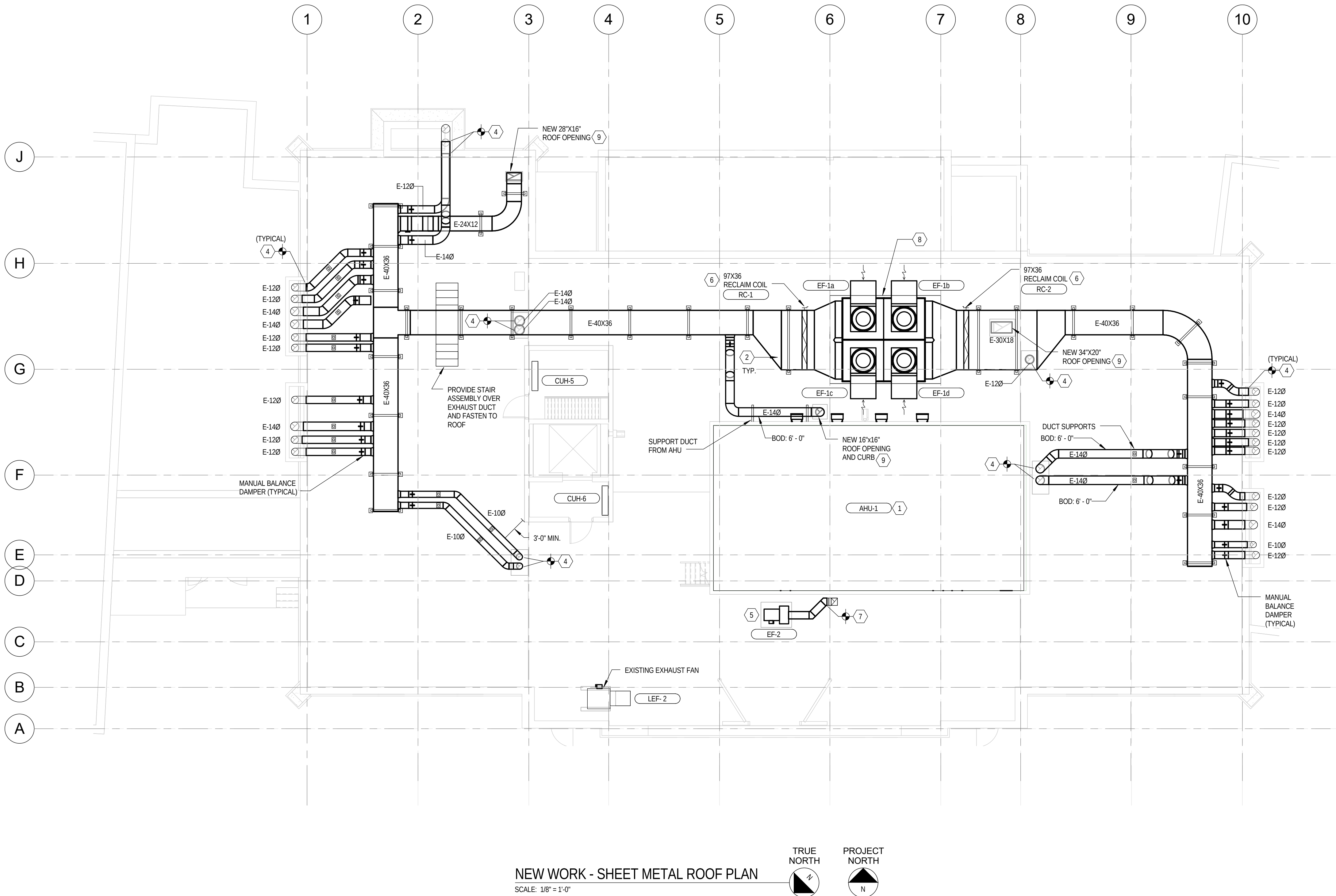
M. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.

N. GENERAL EXHAUST AIR VALVES AND FUME HOOD EXHAUST AIR VALVES ARE SHOWN AS PLACEHOLDERS IN LAB SPACES. CONTRACTOR TO INCLUDE PRICING FOR CONVERTING RETURN DUCT IN LABS CONTAINING FUME HOODS TO EXHAUST.

O. ALL EXISTING TERMINAL AIR DEVICES TO BE REPLACED WITH NEW.

DRAWING NOTES:

1. INSTALL NEW OWNER PURCHASED AHU COMPONENTS. COORDINATE SETTING UNIT WITHIN EXISTING CABINET. CONNECT NEW CHILLED WATER AND HOT WATER SUPPLY AND RETURN. MAKE ALL DUCT CONNECTIONS TO NEW AND EXISTING DUCT AS REQUIRED.
2. INSTALL NEW OWNER PURCHASED PLENUM EXHAUST FAN ASSEMBLY. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS AND COORDINATE STRUCTURAL REINFORCING AS REQUIRED.
3. INSTALL NEW OWNER PURCHASED HEAT RECOVERY COIL IN INSULATED PLENUM ASSEMBLY WITH ACCESS DOOR AND 2" PRE FILTER.
4. CONNECT AND EXTEND NEW EXHAUST DUCT FROM EXISTING AT POINT SHOWN TO NEW DUCT/PLENUM ASSEMBLY. DUCTWORK TO BE 3" WG PRESSURE CLASS GALVANIZED, PVC COATED, AND PAINTED. PROVIDE MANUAL BALANCE DAMPER.
5. REPLACE EXISTING RESTROOM EXHAUST FAN WITH NEW GREENHECK UTILITY SET SIZED FOR 800 CFM @ 1" E.S.P. RE-USE EXISTING CURB AND FIELD COORDINATE WITH EXISTING CONDITIONS. TRANSITION DUCTWORK AS NECESSARY FOR CONNECTION. FAN IS TO RUN CONTINUOUSLY.
6. NEW RECLAIM COIL. COILS ARE TO BE REMOVABLE FROM TOP OF DUCTWORK.
7. RECONNECT TO EXISTING DUCTWORK AT POINT SHOWN.
8. 4" THICK CONCRETE OVERLAY WITH 6X6 W2.9XW2.9 WWF. AT EACH PAN JOIST, INSTALL HILTI HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH 1/2" DIA. HAS THREADED ROD & NUT @ 4'-0" ON CENTER; EMBED 4 1/2" TYP.
9. CREATE ROUGH OPENING BETWEEN PAN JOISTS; SAWCUT AND REMOVE 2-1/2" SLAB BETWEEN CONCRETE PAN JOISTS; DO NOT OVERCUT OR DAMAGE CONCRETE PAN JOISTS.



Xavier University
Logan Hall
Renovation

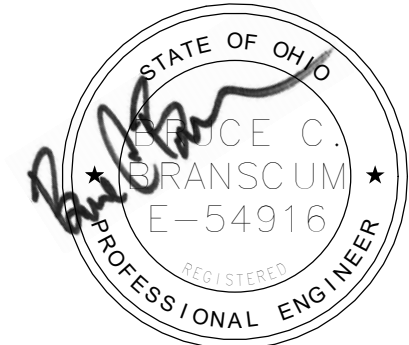
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DATE	DESCRIPTION
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NEW WORK
SHEET METAL
ROOF PLAN

MS104

NEW WORK - SHEET METAL ROOF PLAN

SCALE: 1/8" = 1'-0"



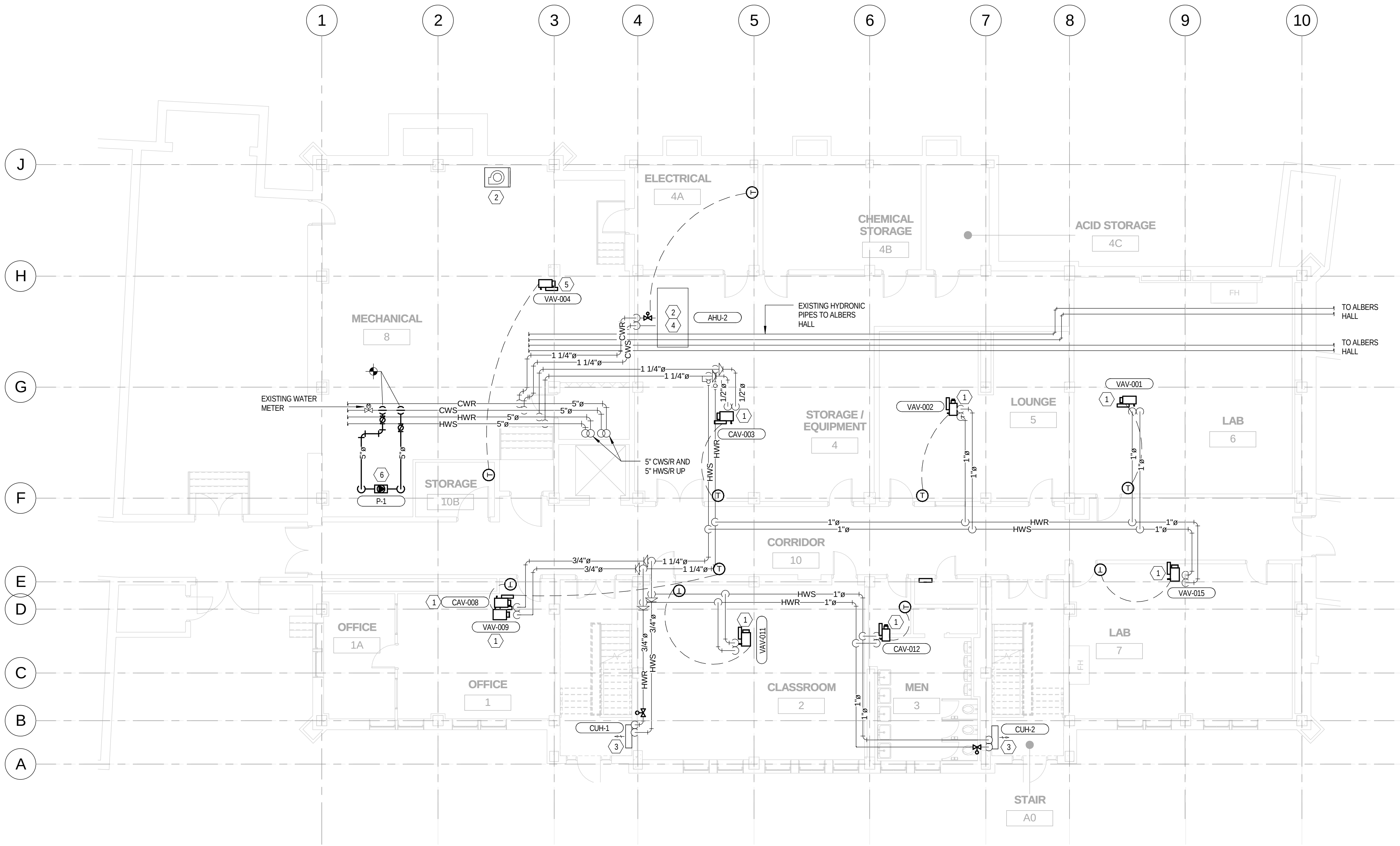
GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL PIPING SHOWN DARK IS TO BE INSTALLED NEW.
- B. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 OHIO MECHANICAL CODE AND ALL APPLICABLE CODES.
- C. VERIFY CONDITIONS IN THE FIELD PRIOR TO BID AND CONSTRUCTION.
- D. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- E. REFER TO DRAWINGS M200, M300, AND M400 FOR MECHANICAL DETAILS, DIAGRAMS, AND SCHEDULES.
- F. PIPING CONTRACTOR SHALL CAREFULLY COORDINATE PIPING LOCATIONS WITH ALL OTHER TRADES. ALL PIPING SHALL BE INSTALLED AS TIGHT TO THE STRUCTURE AS POSSIBLE. ALL CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.
- G. PIPING CONTRACTOR TO COORDINATE NEW WORK WITH OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO WORK IS TO BE INSTALLED OR FABRICATED UNTIL AFTER THE PROJECT COORDINATION HAS BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.
- H. INSTALL A SHUT-OFF VALVE IN ALL BRANCHES.
- I. PIPING SHALL BE SUPPORTED INDEPENDENT OF CEILING, CONDUIT, DUCTWORK, ETC.
- J. ALL VALVES AND CONTROL COMPONENTS THAT ARE LOCATED ABOVE CEILINGS SHALL BE INSTALLED WHERE COMPLETELY ACCESSIBLE. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED.
- K. CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF OPENINGS FOR PIPING WITH THE GENERAL CONTRACTOR.

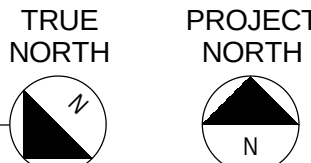
- L. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED, AND CONTRACTOR HAS WORK ABOVE CEILINGS, CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.
- M. CONTRACTOR SHALL COORDINATE ALL REQUIRED WALL PENETRATIONS FOR PIPE WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF NEW WALLS. ALL PIPE PENETRATIONS SHALL BE IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. THE PIPING CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED FOR PIPE PENETRATIONS THROUGH WALLS.
- N. CONTRACTOR TO VERIFY EXISTING SUPPLY AND RETURN PIPING SYSTEM, SIZE, AND PIPE TYPE PRIOR TO MAKING CONNECTIONS.
- O. CONTRACTOR SHALL INSTALL ALL PIPING, VALVES, INSULATION, SUPPORTS ETC. AS INDICATED OR AS REQUIRED TO ALLOW OPERATION AND USE OF ALL AREAS AND ALL SYSTEMS REQUIRED FOR OCCUPED USE DURING CONSTRUCTION.
- P. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL ROOF MOUNTED EQUIPMENT CURBS.
- Q. UL LISTED FIRESTOPPING SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OF FIRE RATED ASSEMBLIES. PIPING CONTRACTOR SHALL USE UL LISTED FIRESTOP SYSTEM METHODS FOR "THROUGH-PENETRATION ASSEMBLIES." TYPICAL OF ALL FIRE RATED WALLS.

DRAWING NOTES:

- NEW VAV BOX WITH HOT WATER COIL. ALL NEW TRIM TO INCLUDE SHUT OFF VALVES, STRAINER, AND 2-WAY CONTROL VALVE. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
- EXISTING TO REMAIN.
- PROVIDE NEW 2-WAY CONTROL VALVE FOR CUH. SEE CUH CONTROL DIAGRAM FOR MORE INFORMATION.
- PROVIDE NEW DDC WALL SENSOR/THERMOSTAT AND 2-WAY VALVE FOR EXISTING AHU-2. SEE CONTROL DIAGRAM FOR MORE INFORMATION.
- NEW VAV BOX WITHOUT HOT WATER COIL. PROVIDE NEW DDC WALL SENSOR/THERMOSTAT. COORDINATE LOCATION WITH EXISTING CONDITIONS.
- NEW INLINE BOOSTER PUMP. CONNECT TO EXISTING CHILLED WATER SUPPLY AT POINTS INDICATED AND PROVIDE MANUAL ISOLATION VALVES AS REQUIRED. SEE PLUMBING DETAILS FOR MORE INFORMATION.



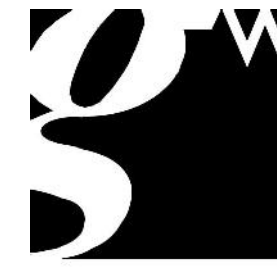
NEW WORK - LOWER LEVEL MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

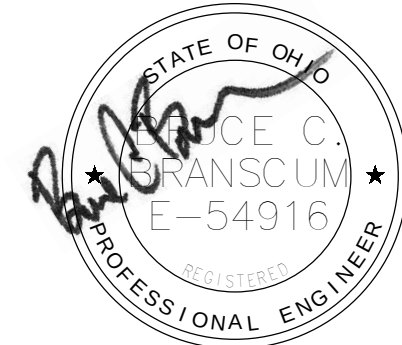
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Project #: 16015



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DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

NEW WORK
LOWER LEVEL
MECHANICAL
PIPING PLAN

MP100

PRINT DATE: 3/6/2017 2:16:32 PM

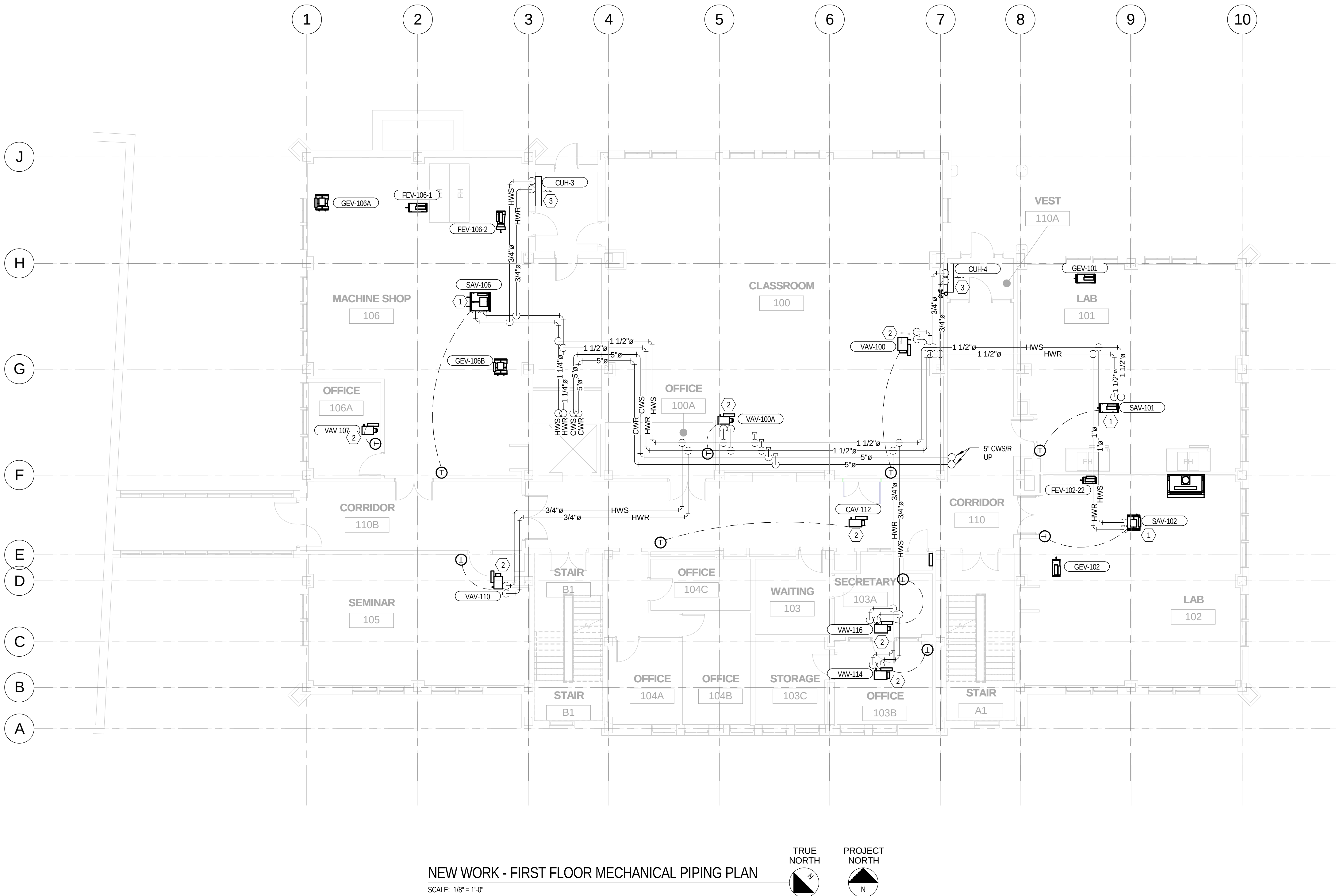
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- K. CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF OPENINGS FOR PIPING WITH THE GENERAL CONTRACTOR.

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DRAWING NOTES:

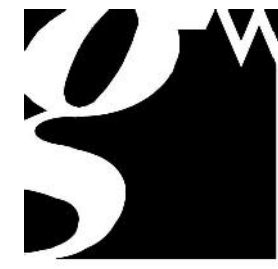
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3. PROVIDE NEW 2-WAY CONTROL VALVE FOR CUH. SEE CUH CONTROL DIAGRAM MORE INFORMATION.



Xavier University
Logan Hall
Renovation

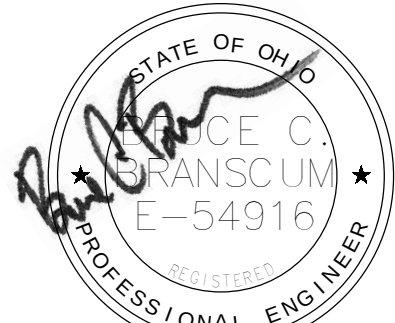
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NEW WORK
FIRST FLOOR
MECHANICAL
PIPING PLAN

MP101

PRINT DATE: 3/6/2017 2:16:40 PM

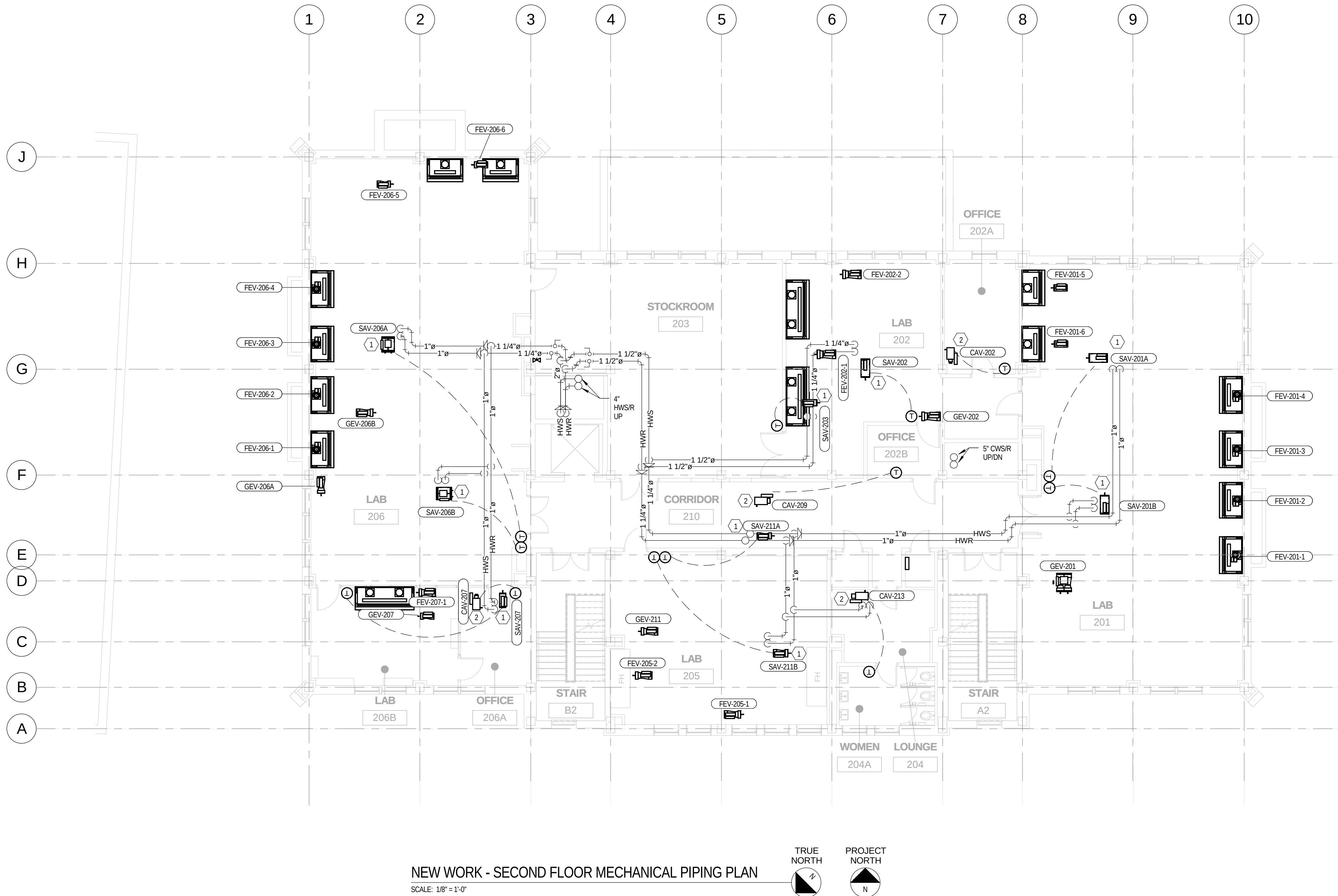
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DRAWING NOTES:

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NEW WORK - SECOND FLOOR MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

Xavier University
Logan Hall
Renovation

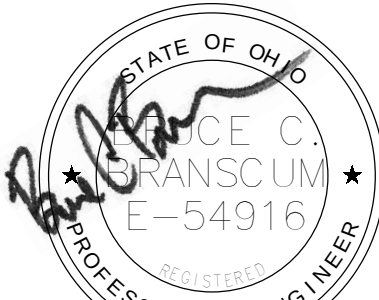
3800 Victory Parkway
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Project #: 16015



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DATE	DESCRIPTION
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NEW WORK
SECOND FLOOR
MECHANICAL
PIPING PLAN

MP102

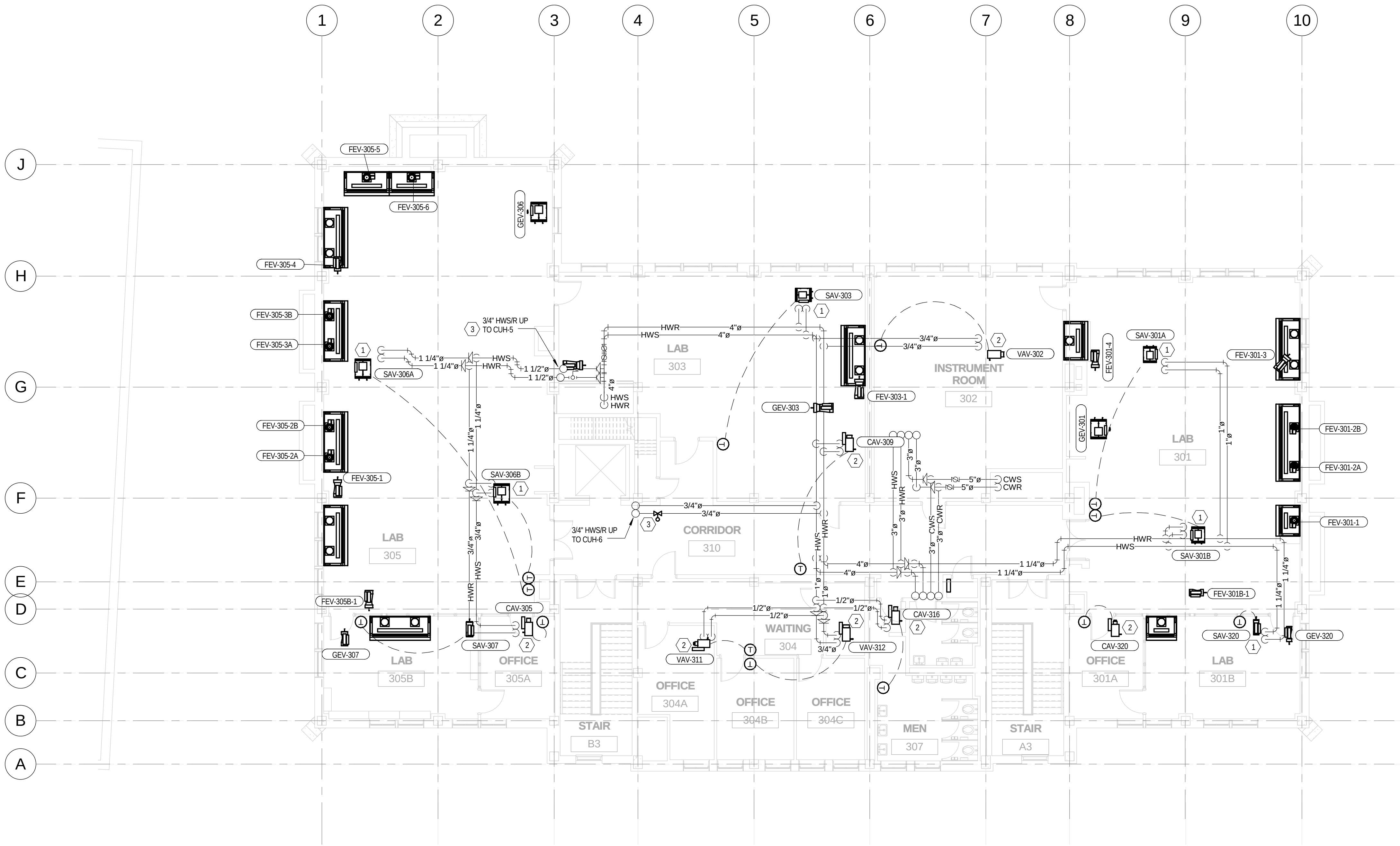
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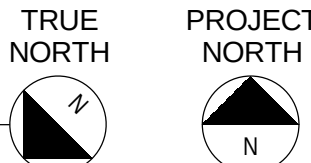
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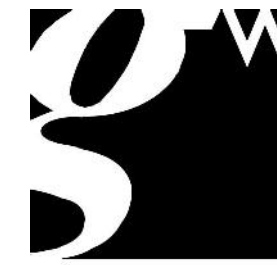
NEW WORK - THIRD FLOOR MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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DATE	DESCRIPTION
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NEW WORK
THIRD FLOOR
MECHANICAL
PIPING PLAN

MP103

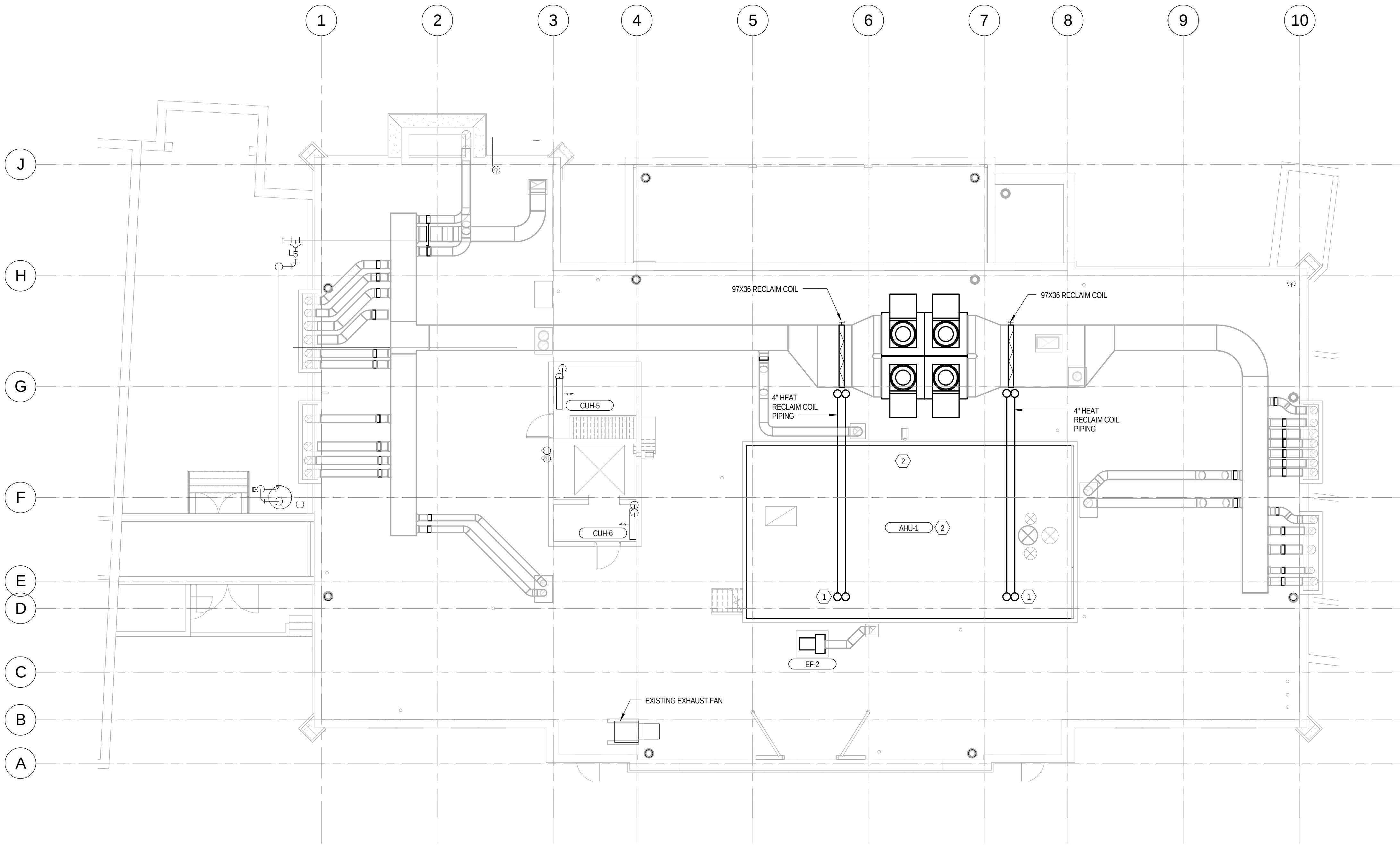
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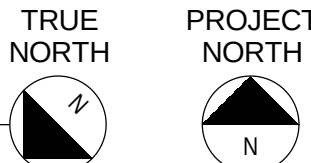
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- Q. UL LISTED FIRESTOPPING SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OF FIRE RATED ASSEMBLIES. PIPING CONTRACTOR SHALL USE UL LISTED FIRESTOP SYSTEM METHODS FOR "THROUGH-PENETRATION ASSEMBLIES." TYPICAL OF ALL FIRE RATED WALLS.

DRAWING NOTES:

1. PROVIDE NEW 300 GPM @ 10HP 480/3/60 INLINE CIRCULATOR. LOCATE INSIDE CUSTOM AHU VESTIBULE. PROVIDE 30% PROPYLENE GLYCOL ALONG WITH EXPANSION TANK, VENTS, DRAINS, BALANCE AND SHUT OFF VALVES. CIRCULATOR TO OPERATE ON/OFF BASED ON DDC CONTROL SYSTEM. PROVIDE 4" SUPPLY AND RETURN PIPING WITH 2" INSULATION AND COVERED WITH ALUMINUM JACKET.
2. RECONNECT CHILLED / HOT WATER PIPING TO NEW COILS IN AHU-1.



NEW WORK - MECHANICAL PIPING ROOF PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

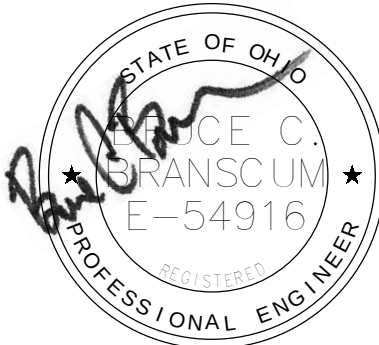
3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



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glaserworks
architecture & urban design



03/07/2017

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SHEET REVISION		
REV #	DATE	DESCRIPTION
1	3/07/2017	FOR BIDDING AND PERMIT

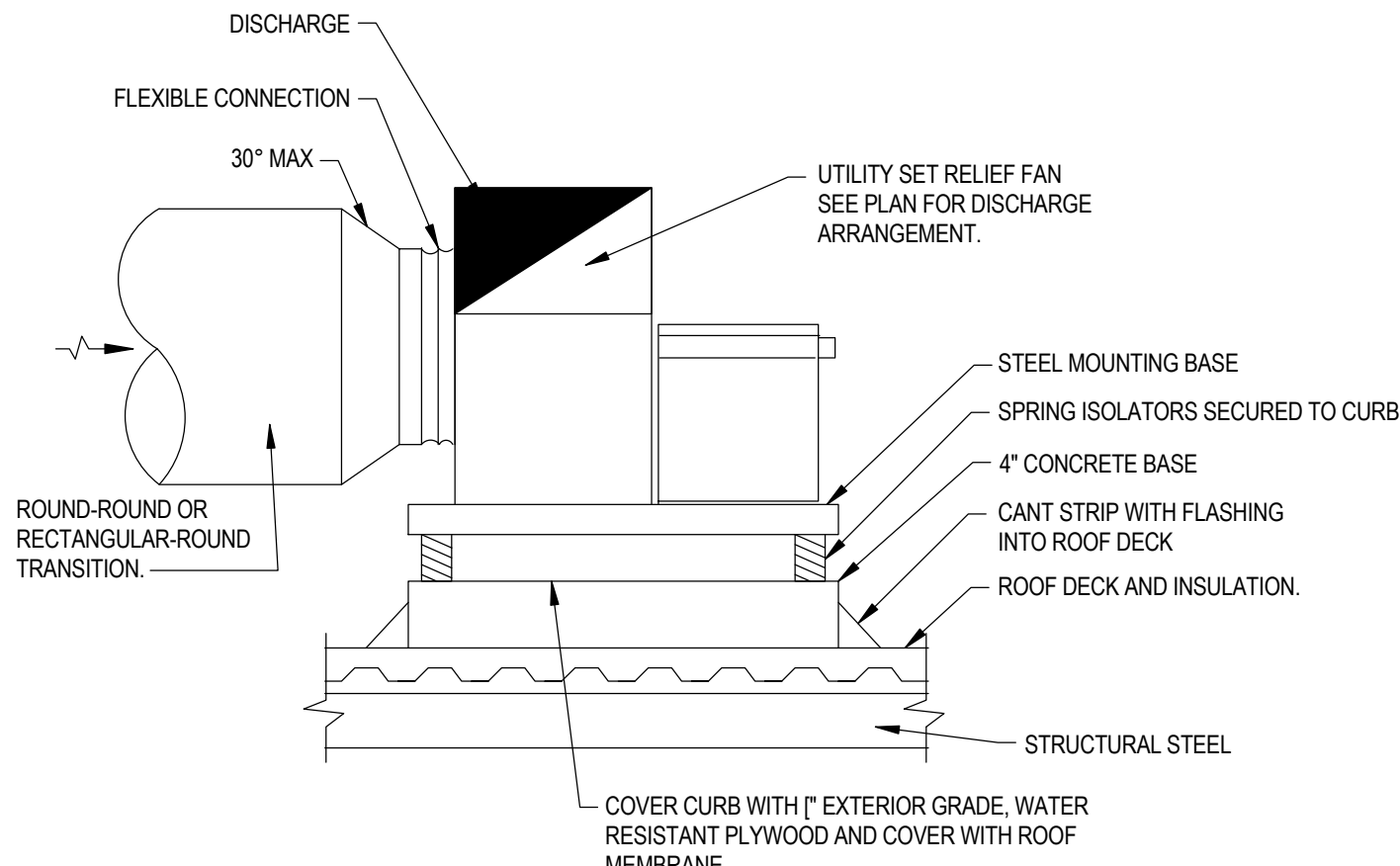
DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

NEW WORK
MECHANICAL
PIPING ROOF
PLAN

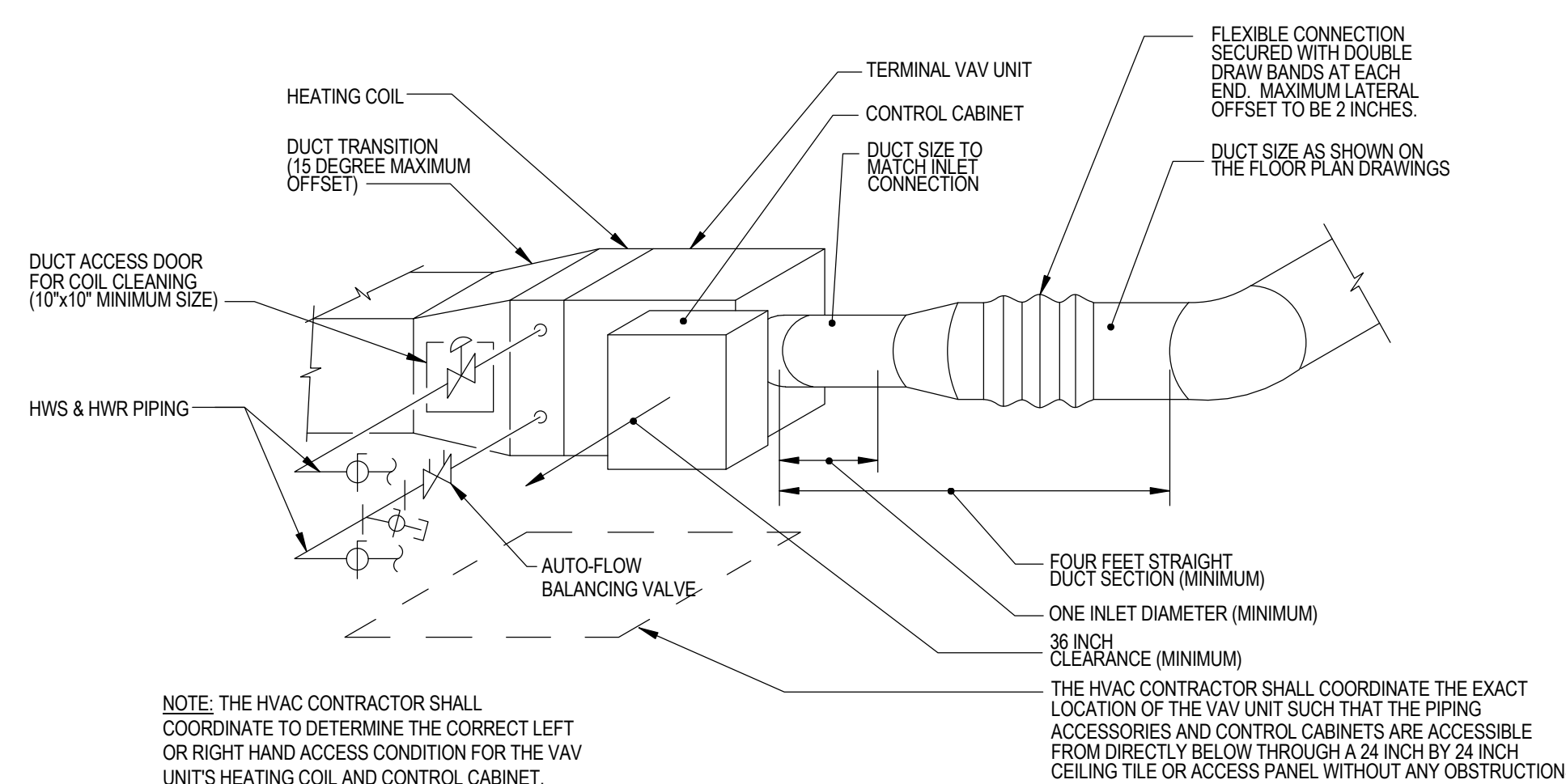
MP104

MECHANICAL LEGEND (not all may apply)

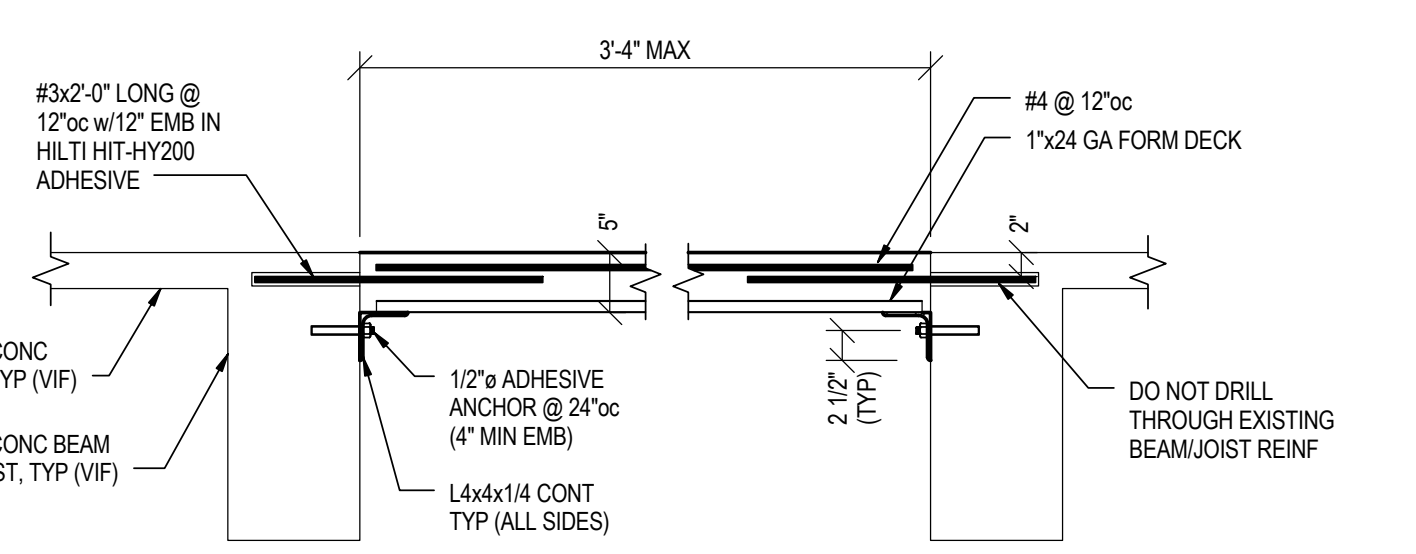
GENERAL ABBREVIATIONS			MECHANICAL SYMBOLS		
AAD	AUTOMATIC AIR DAMPER	KEC	KITCHEN EQUIPMENT CONTRACTOR		BALANCING VALVE
AAV	AUTOMATIC AIR VENT	KH	KITCHEN HOOD		CIRCUIT SENSOR (VENTURI)
AB	AIR BLENDER	KV	KITCHEN VENT		GATE VALVE
AC	AIR CONDITIONING UNIT	LAT	LEAVING AIR TEMPERATURE		BUTTERFLY VALVE
ACC	AIR COOLED CONDENSER	LB	POUND		GLOBE VALVE
ACCU	AIR COOLED CONDENSING UNIT	LD	LEAVING WATER TEMPERATURE		BALL VALVE
AD	ACCESS DOOR	LWT	LEAVING WATER TEMPERATURE		CHECK VALVE
ADDL	ADDITIONAL	MAV	MANUAL AIR VENT		GAS COOK
ADJ	ADJUSTABLE	MAX	MAXIMUM		TEMPERATURE REGULATING VALVE
AF	AFTER FILTER	MBH	BTUS PER HOUR, THOUSAND		PRESSURE RELIEF VALVE
AFF	ABOVE FINISHED FLOOR	MCV	MECHANICAL CITY WATER		RELIEF VALVE
ALT	ALTERNATE	MECH	MECHANICAL		STRAINER
ALUM	ALUMINUM	MFG	MANUFACTURER		3-WAY VALVE
AP	ACCESS PANEL	MFGMFR	MANUFACTURER		WATER FLOW TRANSMITTER
APPROX	APPROXIMATE	MIN	MINIMUM		VALVE AND END CAP
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS		FLANGED CONNECTION
AUTO	AUTOMATIC	MSW	MECHANICAL SOFT WATER		REDUCER
AVG	AVERAGE	NA	NOT APPLICABLE		ELBOW UP
BAS	BUILDING AUTOMATION SYSTEM	NC	NORMALLY CLOSED/NOISE CRITERIA		ELBOW DOWN
BBD	BALANCED BACKDRAFT DAMPER	NG	NATURAL GAS		THERMOMETER
BE	BOTTOM ELEVATION	NO	NOT IN CONTRACT		PRESSURE GAUGE
BFP	BACKFLOW PREVENTER	NOM	NOMINAL		SUPPLY DIFFUSER
BLDG	BUILDING	NTS	NOT TO SCALE		RETURN DIFFUSER
BLR	BOILER	OA	OUTSIDE AIR		RETURN DIFFUSER
BOD	BOTTOM OF DUCT	OAH	OUTSIDE AIR HOOD		PLENUM SLOT DIFFUSER
BOP	BOTTOM OF PIPE	OAL	OUTSIDE AIR LOUVER		EXHAUST DIFFUSER
BOT	BOTTOM	OC	ON CENTER		EXHAUST DIFFUSER
BP	BOOSTER PUMP	OC	OCCUPANCY SENSOR		DUCT TAP LEFT
BTU	BRITISH THERMAL UNIT	OPG	OPENING		DUCT TAP RIGHT
BTUH	BTUS PER HOUR	OSAY	OUTSIDE SCREW AND YOKE		OPPOSED BLADE DAMPER
BV	BALL VALVE	OZ	OUNCE		PARALLEL BLADE DAMPER
CA	COMBUSTION AIR FAN	PC	PLUMBING CONTRACTOR		BALANCED BACKDRAFT DAMPER
CCW	COUNTER CLOCKWISE	PCHWP	PRIMARY CHILLED WATER PUMP		FIRE DAMPER (HORIZONTAL OR VERTICAL)
CD	CLOCKWISE	PERM	PERMANENT		SMOKE DAMPER (HORIZONTAL OR VERTICAL)
CFM	CUBIC FEET PER MINUTE	PF	PIPE FILTER		COMBINATION SMOKE FIRE DAMPER
CH	CHILLER	PH	PHASE		AUTOMATIC AIR DAMPER
CHWP	CHILLED WATER PUMP	PHWP	PRIMARY HOT WATER PUMP		MANUAL DAMPER
CI	CAST IRON	PI	PRESSURE INDICATOR		STATIC PRESSURE TRANSMITTER
COL	COLUMN	PLBG	PLUMBING		THERMOSTAT OR TEMPERATURE SENSOR
CONN	CONNECTION	PRESS	PRESSURE		POINT OF CONNECTION
CU	CUP	PRV	PRESSURE REDUCING VALVE		POINT OF REMOVAL
CUH	CUP HEATER	PS	PRESSURE SWITCH		TIE POINT, LIMITS OF DEMOLITION
CUF	CUBIC FEET	PSD	PLENUM SLOT DIFFUSER		
CUIN	CUBIC INCH	PSI	POUND PER SQUARE INCH		
CW	CLOCKWISE	PSIA	POUND PER SQUARE INCH ABSOLUTE		
CWP	CONDENSING WATER PUMP	PSIG	POUND PER SQUARE INCH GAUGE		
CWS	CONDENSING WATER SUPPLY	PVC	POLY(VINYL CHLORIDE)		
DB	DEGREE	RCR	REGULATION PUMP		
DCC	DIRECT DIGITAL CONTROL	RG	RETURN GRILLE		
DET	DETAIL	REF	REFERENCE		
DIA	DIAMETER	REQD	REQUIRED		
DN	DOWN	REV	REVISED		
DPR	DRAIN	RH	RELATIVE HUMIDITY/ROOF		
DPT	DEW POINT TEMPERATURE	RV	RELIEF VENT		
DR	DRAIN	RM	REVOLUTIONS PER MINUTE		
DWG	DRAWING	RR	RETURN REGISTER		
EA	EACH	SA	SCHEDULE		
EAH	EXHAUST AIR	SCHWP	SECONDARY CHILLED WATER PUMP		
EAL	EXHAUST AIR LOUVER	SD	SUCTION DIFFUSER		
EAT	ENTERING AIR TEMPERATURE	SECT	SECTION		
EC	ELECTRICAL CONTRACTOR	SG	SUPPLY GRILLE		
EL	ELEVATION	SHWP	SECONDARY HOT WATER PUMP		
ELEC	ELECTRIC/ELECTRICAL	SHT	SHEET		
EG	EXHAUST GRILLE	SL	SOUND LINING		
EQ	EQUAL	SM	SURFACE MOUNT		
EQUIP	EQUIPMENT	SPEC	SPECIFICATIONS		
EQUIV	EQUIVALENT	SPT	STATIC PRESSURE TRANSMITTER		
ER	EXHAUST REGISTER	SQ	SQUARE		
ESP	EXTERNAL STATIC PRESSURE	SQ FT	SQUARE FOOT (FEET)		
ET	EXPANSION TANK	SQ IN	SQUARE INCHES		
EW	ENTERING WATER TEMPERATURE	SR	SUPPLY REGISTER		
EW	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL		
EXIST	EXISTING	STD	STANDARD		
EXP	EXPANSION	STL	STEEL		
FD	FLAT DRAIN	STRUCT	STRUCTURAL		
FF	FINISHED FLOOR	TCV	TEMPERATURE CONTROL VALVE		
FH	FIRE HYDRANT	TE	TOP ELEVATION		
FL	FLOOR	TI	TEMPERATURE INDICATOR		
FGB	FUEL GAS BOTTOM	TMV	THERMOSTATIC MIXING VALVE		
FOS	FUEL OIL SUPPLY	TSP	TOTAL STATIC PRESSURE		
FOT	FLAT ON TOP	TSTAT	THERMOSTAT		
FPC	FIRE PROTECTION CONTRACTOR	TV	THERMAL EXPANSION VALVE		
FPM	FEET PER MINUTE	TYP	TYPICAL		
FPVAV	FAN POWERED VAV	TW	TEMPERED WATER		
FS	FLOOR SINK	UG	UNDERGROUND		
GA	GAUGE	UH	UNIT HEATER		
GALV	GALVANIZED	UNO	UNLESS OTHERWISE NOTED		
GC	GENERAL CONTRACTOR	VAC	VACUUM		
GPH	GALLONS PER HOUR	VA	VARIABLE AIR VOLUME		
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME		
HORIZ	HORIZONTAL	VD	VOLUME DAMPER		
HR	HOUR	VERT	VERTICAL		
HT	HEAT TRACE	VFD	VARIABLE FREQUENCY DRIVE		
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VOL	VOLUME		
HWR	HOT WATER RETURN	W	WITH		
HWS	HOT WATER SUPPLY	W/O	WITHOUT		
HX	HEAT EXCHANGER	WB	WET BULB TEMPERATURE		
IA	INSTRUMENT AIR	WG	WEATHER GAUGE		
IE	INVERT ELEVATION	WP	WEATHER PROOF		
IN	INCH	XP	EXPLOSION PROOF		
INV	INVERT				



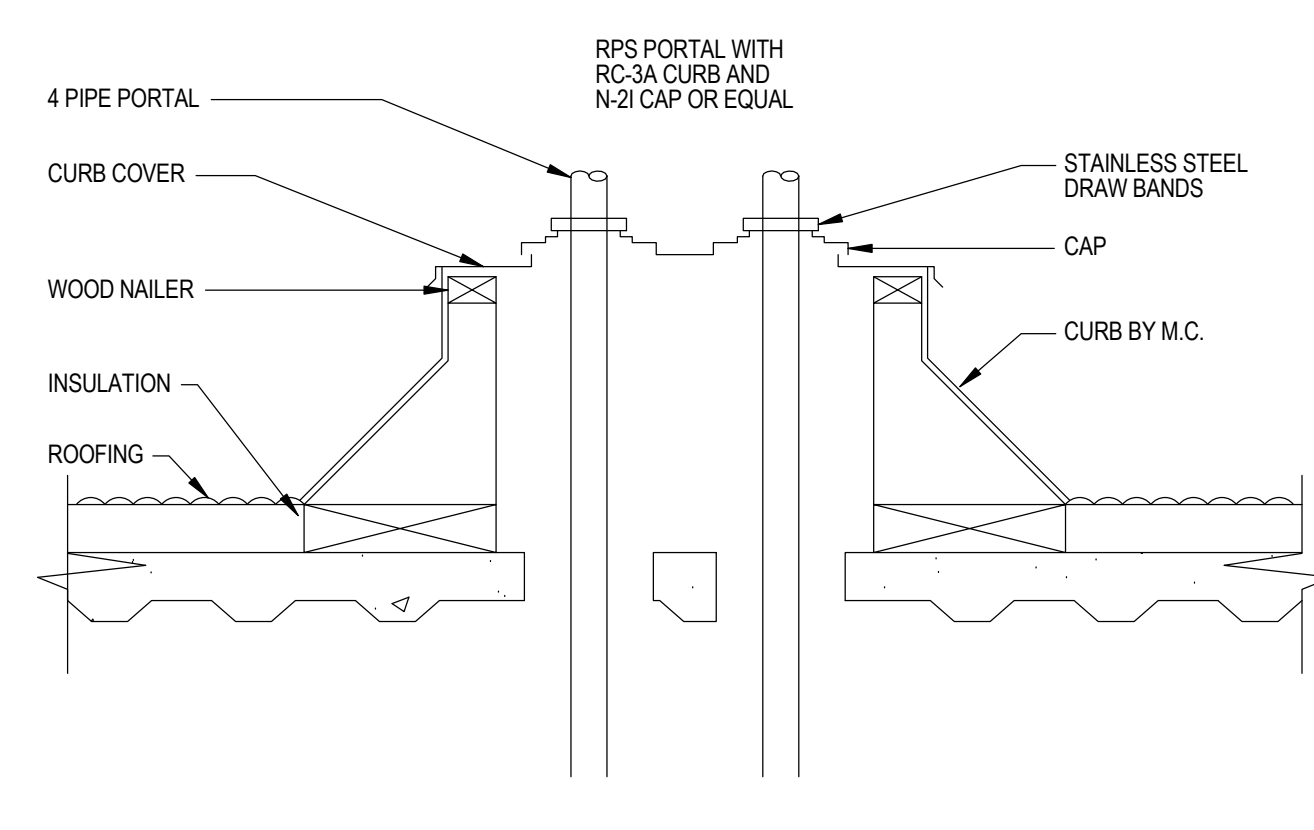
ROOF MOUNTED UTILITY SET FAN CURB DETAIL
SCALE: N.T.S.



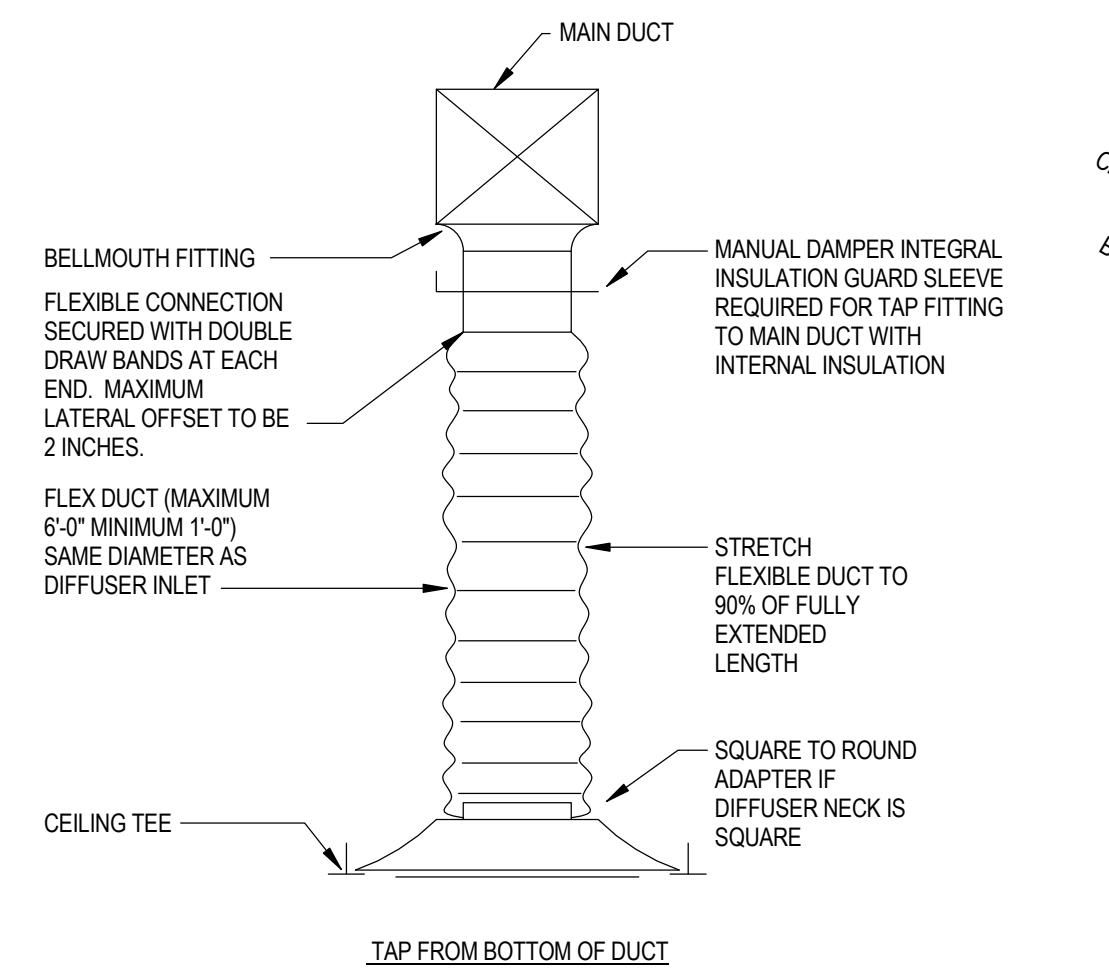
VAV UNIT INSTALLATION DETAIL
SCALE: N.T.S.



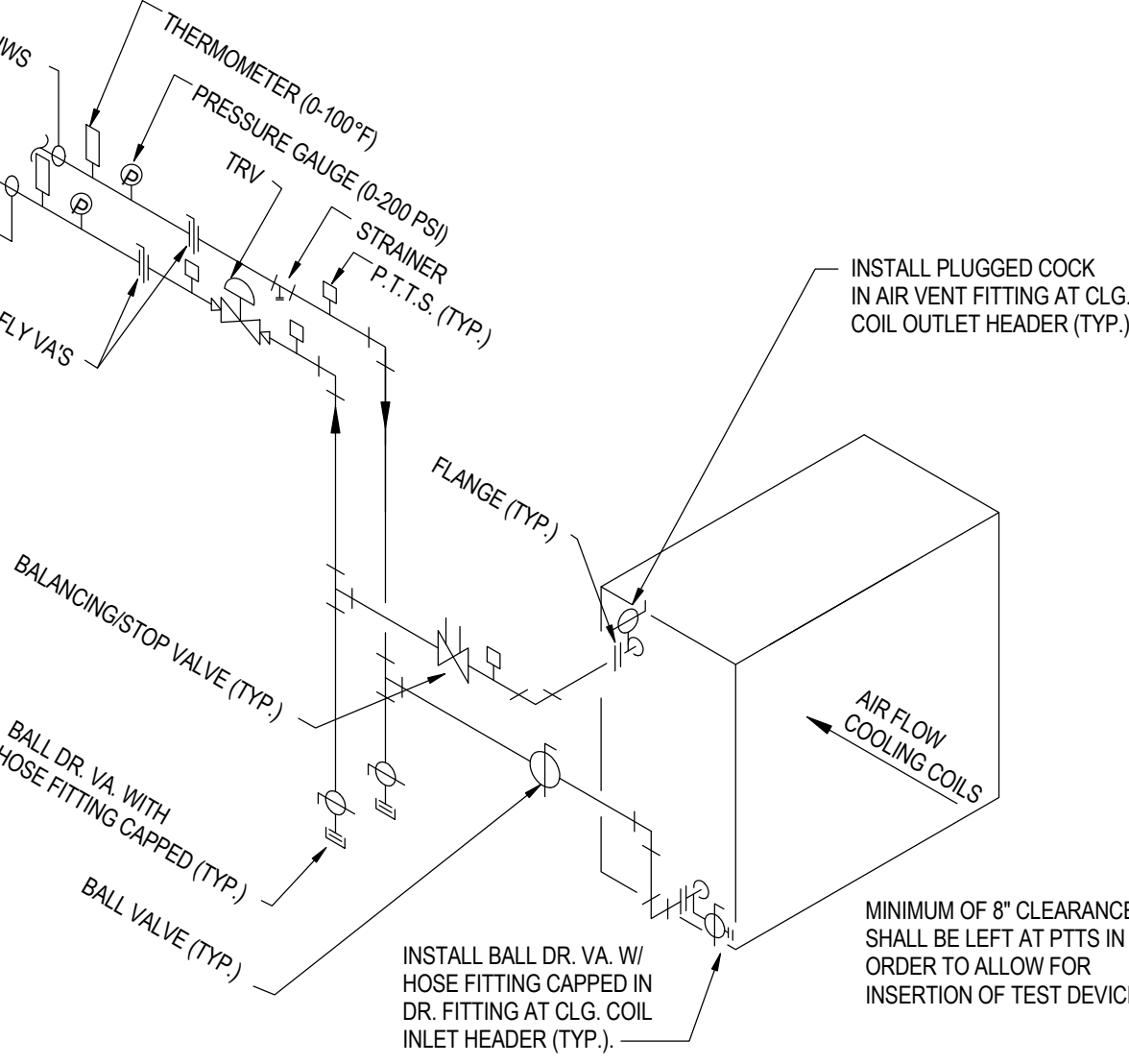
TYPICAL INFILL SLAB DETAIL AT EXISTING OPENING
SCALE: N.T.S.



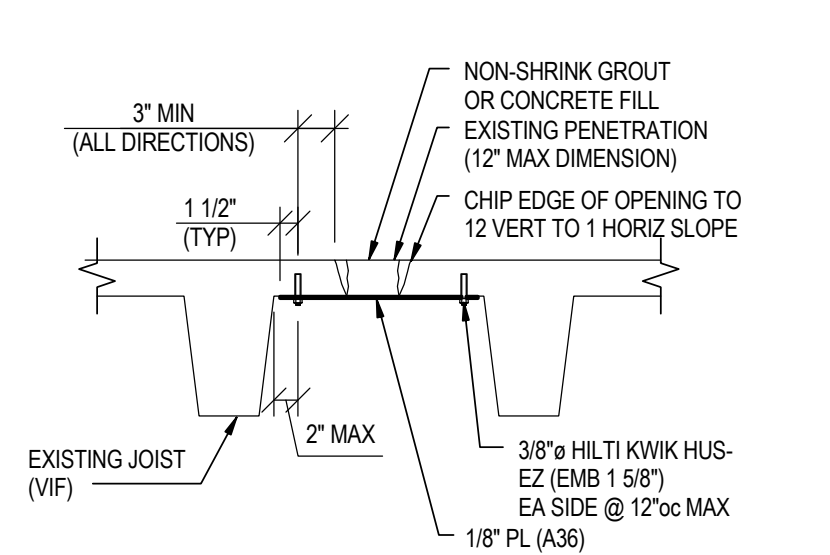
MULTIPLE ROOF PIPE CURB DETAIL
SCALE: N.T.S.



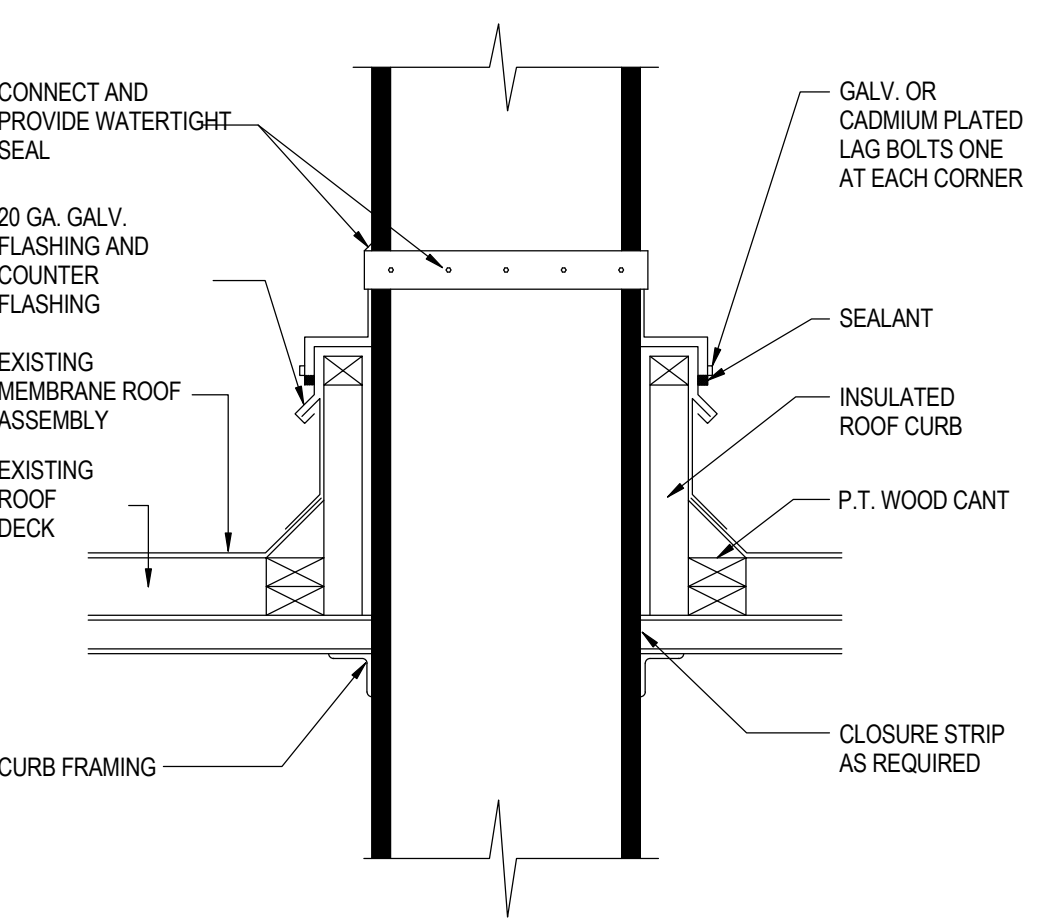
CEILING DIFFUSER CONNECTION DETAILS
SCALE: N.T.S.



COOLING COIL PIPING DIAGRAM
SCALE: N.T.S.



TYPICAL EXISTING SMALL PENETRATION INFILL DETAIL
SCALE: N.T.S.



ROOF CURB FOR DUCT ROOF CURB
SCALE: N.T.S.

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SHEET REVISION		
REV #	DATE	DESCRIPTION
1	3/07/2017	FOR BIDDING AND PERMIT

ISSUE	DESCRIPTION	
	DATE	DESCRIPTION
	03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

MECHANICAL
DETAILS

M200

AIR HANDLING UNIT SCHEDULE

SYMBOL	SUPPLY FAN										MOTOR			HEAT RECLAIM COIL										HOT WATER PREHEAT COIL										CHILLED WATER COOLING COIL										RETURN FAN										MOTOR			REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	QUANTITY	CAPACITY TOTAL (CFM)	OA TOTAL (CFM)	TSP (IN WG)	ESP (IN WG)	BHP (EACH)	TYPE	MAX RPM	DIA (IN)	HP (EA/TOTAL)	VOLTAGE & PHASE	CAPACITY (MBH)	EAT (F)	LAT (F)	APD (IN WG)	MAX FV (FPM)	EFT (F)	LFT (F)	WPD (FT HD)	MAX ROWS/FPI	CAPACITY (MBH)	EAT (F)	LAT (F)	APD (IN WG)	MAX FV (FPM)	EWT (F)	LWT (F)	WPD (FT HD)	MAX ROWS/FPI	TOTAL CAP (MBH)	DIMENSIONS (HxW)	SENS. CAP (MBH)	EAT (FDB/FWB)	LAT (FDB/FWB)	APD (IN WG)	MAX FV (FPM)	EWT (F)	LWT (F)	WPD (FT HD)	MAX ROWS/FPI	QUANTITY	CAPACITY TOTAL (CFM)	TSP (IN WG)	BHP (EACH)	TYPE	MAX RPM	DIA (IN)	HP (EACH/TOTAL)	VOLTAGE & PHASE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AHU-1	8	50000	38000	8.4	4.5	11.77	HPF-A100	3862	18	12/96	460/3/60	1098.06	1	18.6	0.56	513	40.9	29.2	18.6	4/12	2788	16.8	68.2	.64	609	160	140	10.5	4/12	2369.9	90X160	1893.7	88.3/68.2	52/51.8	.9	500	46	58	13.3	8/9	2	12000	1.5	2.87	HPF-A100	3521	20	4.5/9	460/3/60	1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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REMARKS:

1. EXISTING AHU CABINET TO BE REUSED - EACH SEPARATE COMPONENT IS TO BE PROVIDED FOR INSTALLATION IN EXISTING CABINET.
2. ONE VFD FOR RETURN FANS, TWO VFDs FOR SUPPLY FANS.

RECLAIM COIL SCHEDULE

SYMBOL	SYSTEM	DIMENSIONS (HxW)	CAPACITY (MBH)	AIRFLOW (CFM)	EAT		LAT		MAX FV (FPM)	AIR PRESS DROP (IN WG)	ROWS / FPI	EFT (F)	LFT (F)	FLUID FLOW (GPM)	FLUID PRESS DROP (FT HD)	BASIS OF DESIGN		REMARKS
					(FDB)	(FWB)	(FDB)	(FWB)								MANUFACTURER	MODEL	
RC-1	LAB EXHAUST	97x36	510.74	19000	72	59	49.2	48.7	392	0.4	4/12	30	40.9	93.7	14.6	TEMTROL	5WC-6-36x97x4 - 12 AL	
RC-2	LAB EXHAUST	97x36	510.74	19000	72	59	49.2	48.7	392	0.4	4/12	30	40.9	93.7	14.6	TEMTROL	5WC-6-36x97x4 - 12 AL	

PUMP SCHEDULE

SYMBOL	SYSTEM	CAPACITY (GPM)	TDH (FT WG)	BHP	MOTOR			IMPELLER DIA. (IN.)	PUMP TYPE	FLUID	BASIS OF DESIGN		REMARKS
					HP	RPM	WPH				MANUFACTURER	MODEL	
P-1	CWS	400	55	7.5	10	1800	4603	8.25	VERTICAL IN-LINE	WATER	BSG	4x4x9.5B	
P-2	HEAT PIPE	400	50	7.5	10	1800	4603	8.62	VERTICAL IN-LINE	PROPYLENE (30%)	BSG	4x4x9.5B	

APPLICATION OF ASHRAE STANDARD 62-2010 TO THE OUTSIDE AIR REQUIREMENTS FOR AHU-1

SYSTEM LEVEL

Do any of the VAV terminals have reheat?

Yes
0.30

Fmin, Zone VAV minimum airflow, as a fraction of maximum airflow

(Applies to all Zones which do not have DCV indicated below)

UNIT INFORMATION

Air Handling Unit	AHU-1	Unit OA Percentage	76	%
Unit SA Airflow	50,000	Unit min OA Airflow	38,000	cfm

THIS UNIT MEETS CODE REQUIRED MINIMUM OUTDOOR AIR REQUIREMENTS.

DETAIL LEVEL

Area Name	Area Type	Zone floor area (sf)	Zone population (# people)	Default Occupant Density (#/1,000 SF)	Req'd OA per person from Table 6.1 (cfm/person)	Req'd OA per SF from Table 6.1 (cfm/sf)	Occupant-to -Required -Air Product (cfm)	Area-to -Required -Air Product (cfm)	Zone air distribution configuration	Zone air distribution effectiveness Table 6.2	Req'd Occ. OA to zone, corrected for Ez Occ (cfm)	Req'd Occupied OA Fraction Voz/Vpzm	Min. Allowable Supply Air to Occupied Zone at Unit OA% (cfm)	Min. Allowable Supply Air to Unocc. Zone at Unit OA% (cfm)	Design Maximum SA to zone (cfm)	Min. Occ. Supply Air to zone (cfm)	Min. Occ. Outside Air to zone (cfm)
		Az	Pz	ro	Rp	Ra	PzxRp	AzxRa		Ez	Voz	Zp	(PzxRp)*(AzxRa) / UnitOA%	(AzxRa) / UnitOA%	Vpzt	Vpzm(occ)	
LAB 6	University/College Lab	798		25	10	0.18	200	143.64	Ceiling supply, cooling	1.0	343	0.71	452	189	850	480	365
LAB 7	University/College Lab	581		25	10	0.18	145	104.58	Ceiling supply, cooling	1.0	250	0.50	329	138	1500	500	380
LOUNGE 5	Lobbies/prefunction	332		30	7.5	0.06	75	19.92	Ceiling supply, cooling	1.0	95	0.73	125	26	320	130	99
CHEM STORAGE 4	Occupiable storage for liquids/gels	1293		2	5	0.12	13	155.16	Ceiling supply, cooling	1.0	168	0.70	221	204	240	240	182
ACID STORAGE 4C	Occupiable storage for liquids/gels	110		2	5	0.12	1	13.2	Ceiling supply, cooling	1.0	14	0.14	19	17	100	100	76
CHEM STORAGE 4B	Occupiable storage for liquids/gels	277		2	5	0.12	3	33.24	Ceiling supply, cooling	1.0	36	0.36	47	44	100	100	76
CLASSROOM 2	Classrooms (age 9 plus)	667		35	10	0.12	233	80.04	Ceiling supply, cooling	1.0	313	0.78	412	105	1200	400	304
CORRIDOR 10	Corridors	846				0.06		50.76	Ceiling supply, cooling	1.0	51	0.14	67	67	360	360	274
OFFICE 1	Office space	343		5	5	0.06	9	20.58	Ceiling supply, cooling	1.0	29	0.12	38	27	780	235	179
OFFICE 1A	Office space	150		5	5	0.06	4	9	Ceiling supply, cooling	1.0	13	0.21	17	12	200	60	46
LAB 101	University/College Lab	816	25	25	10	0.18	250	146.88	Ceiling supply, cooling	1.0	397	0.65	522	193	2040	615	467
LAB 102	University/College Lab	823		25	10	0.18	206	148.14	Ceiling supply, cooling	1.0	354	0.79	466	195	1500	450	342
CLASSROOM 100	Classrooms (age 9 plus)	1834		35	10	0.12	642	220.08	Ceiling supply, cooling	1.0	862	0.85	1,134	290	2520	1010	768
OFFICE 100A	Office space	91	3	5	5	0.06	15	5.46	Ceiling supply, cooling	1.0	20	0.34	27	7	200	60	46
SEMINAR 105	Classrooms (age 9 plus)	522		35	10	0.12	183	62.64	Ceiling supply, cooling	1.0	245	0.82	323	82	800	300	228
STORAGE 103C	Occupiable storage for liquids/gels	111		2	5	0.12	1	13.32	Ceiling supply, cooling	1.0	14	0.24	19	18	200	60	46
OFFICE 103B	Office space	146		5	5	0.06	4	8.76	Ceiling supply, cooling	1.0	12	0.10	16	12	400	120	91
OFFICE 104B	Office space	150		5	5	0.06	4	9	Ceiling supply, cooling	1.0	13	0.14	17	12	300	90	68
OFFICE 104A	Office space	112		5	5	0.06	3	6.72	Ceiling supply, cooling	1.0	10	0.11	13	9	300	90	68
OFFICE 104C	Office space	99		5	5	0.06	2	5.94	Ceiling supply, cooling	1.0	8	0.19	11	8	150	45	34
WAITING 103	Lobbies/prefunction	105		30	7.5	0.06	24	6.3	Ceiling supply, cooling	1.0	30	0.67	39	8	150	45	34
OFFICE 103A	Office space	130		5	5	0.06	3	7.8	Ceiling supply, cooling	1.0	11	0.25	15	10	150	45	34
CORRIDOR 110B	Corridors	272				0.06		16.32	Ceiling supply, cooling	1.0	16	0.04	21	21	450	450	342
CORRIDOR 110	Corridors	1116				0.06		66.96	Ceiling supply, cooling	1.0	67	0.37	88	88	600	180	137
OFFICE 106A	Office space	127	2	5	5	0.06	10	7.62	Ceiling supply, cooling	1.0	18	0.21	23	10	270	85	65
MACHINE SHOP 106	Wood/metal shop	1148		20	10	0.18	230	206.64	Ceiling supply, cooling	1.0	436	0.46	574	272	3150	945	718
LAB 201	University/College Lab	1665		25	10	0.18	416	299.7	Ceiling supply, cooling	1.0	716	0.60	942	394	4000	1200	912
LAB 202	University/College Lab	542		25	10	0.18	136	97.56	Ceiling supply, cooling	1.0	233	0.43	307	128	1800	540	410
OFFICE 202A	Office space	156		5	5	0.06	4	9.36	Ceiling supply, cooling	1.0	13	0.29	17	12	150	45	34
OFFICE 202B	Office space	71		5	5	0.06	2	4.26	Ceiling supply, cooling	1.0	6	0.13	8	6	150	45	34
STOCKROOM 203	Occupiable storage for liquids/gels	844		2	5	0.12	8	101.28	Ceiling supply, cooling	1.0	110	0.17	144	133	650	650	494
LAB 205	University/College Lab	682		25	10	0.18	171	122.76	Ceiling supply, cooling	1.0	293	0.51	386	162	1890	570	433
LAB 206	University/College Lab	1676		25	10	0.18	419	301.68	Ceiling supply, cooling	1.0	721	0.85	948	397	2820	850	646
OFFICE 206A	Office space	128		5	5	0.06	3	7.68	Ceiling supply, cooling	1.0	11	0.22	14	10	165	50	38
LAB 206B	University/College Lab	265		25	10	0.18	66	47.7	Ceiling supply, cooling	1.0	114	0.47	150	63	800	240	182
LOUNGE 204	Lobbies/prefunction	131		30	7.5	0.06	29	7.86	Ceiling supply, cooling	1.0	37	0.83	49	10	150	45	34
CORRIDOR 210	Corridors	634				0.06		38.04	Ceiling supply, cooling	1.0	38	0.06	50	50	660	660	502
LAB 301	University/College Lab	1253		25	10	0.18	313	225.54	Ceiling supply, cooling	1.0	539	0.56	709	297	3200	960	730
OFFICE 301A	Office space	128		5	5	0.06	3	7.68	Ceiling supply, cooling	1.0	11	0.24	14	10	150	45	34
LAB 301B	University/College Lab	265		25	10	0.18	66	47.7	Ceiling supply, cooling	1.0	114	0.71	150	63	530	160	122
INSTRUMENT ROOM 302	Occupiable storage for dry materials	682		2	5	0.06	7	40.92	Ceiling supply, cooling	1.0	48	0.15	63	54	1050	315	239
LAB 303	University/College Lab	926		25	10	0.18	232	166.68	Ceiling supply, cooling	1.0	398	0.83	524	219	1600	480	365
LAB 305	University/College Lab	1682		25	10	0.18	421	302.76	Ceiling supply, cooling	1.0	723	0.54	952	398	4500	1350	1,026
LAB 305B	University/College Lab	265		25	10	0.18	66	47.7	Ceiling supply, cooling	1.0	114	0.53	150	63	715	215	163
OFFICE 305A	Office space	128		5	5	0.06	3	7.68	Ceiling supply, cooling	1.0	11	0.20	14	10	180	55	42
WAITING 304A	Lobbies/prefunction	235		30	7.5	0.06	53	14.1	Ceiling supply, cooling	1.0	67	0.84	88	19	180	80	61
OFFICE 304A	Office space	130		5	5	0.06	3	7.8	Ceiling supply, cooling	1.0	11	0.18	15	10	200	60	46
OFFICE 304B	Office space	132		5	5	0.06	3	7.92	Ceiling supply, cooling	1.0	11	0.19	15	10	200	60	46
OFFICE 304C	Office space	116		5	5	0.06	3	6.96	Ceiling supply, cooling	1.0	10	0.16	13	9	200	60	46

Xavier University
Logan Hall
Renovation

3800 Victory Parkway
Cincinnati, OH 45207

SUPPLY AIR VALVE SCHEDULE

UNIT NUMBER	SERVES	INLET SIZE (IN. DIA.)	AIRFLOW RANGE		MAXIMUM NC LEVEL	MAXIMUM S.P. LOSS (IN. W.G.)	CONTROLLER YES/NO (Y/N)	BASIS OF DESIGN	HOT WATER HEATING COIL					REMARKS
			MAXIMUM (CFM)	MINIMUM (CFM)					CAPACITY (MBH)	EAT (°F)	LAT (°F)	GPM	ROWS/ FPI	
SAV-101	LAB 101	14"	2040	500	50	3	Y	PHOENIX MAVA114M	55.1	70	95	5.5	2/10	1
SAV-102	LAB 102	2-10"	1500	380	50	3	Y	PHOENIX MAVA210M	40.5	70	95	4.1	2/10	2
SAV-106	MACHINE SHOP 106A	2-14"	3150	450	50	3	Y	PHOENIX MAVA114M	85.1	70	95	8.5	2/10	2
SAV-201A	LAB 201	14"	2000	610	50	3	Y	PHOENIX MAVA114M	54.0	70	95	5.4	2/10	1
SAV-201B	LAB 201	14"	2000	610	50	3	Y	PHOENIX MAVA114M	54.0	70	95	5.4	2/10	1
SAV-202	LAB 202	14"	1800	300	50	3	Y	PHOENIX MAVA114M	48.6	70	95	4.9	2/10	1
SAV-203	STOCKROOM 203	10"	650	650	50	3	Y	PHOENIX MAVA110M	17.6	70	95	1.8	2/10	1.3
SAV-211A	LAB 205	10"	840	160	50	3	Y	PHOENIX MAVA110M	22.7	70	95	2.3	2/10	1
SAV-211B	LAB 205	12"	1050	200	50	3	Y	PHOENIX MAVA112M	28.4	70	95	2.8	2/10	1
SAV-206A	LAB 206	2-10"	1410	475	50	3	Y	PHOENIX MAVA210M	38.1	70	95	3.8	2/10	2
SAV-206B	LAB 206	2-10"	1410	475	50	3	Y	PHOENIX MAVA210M	38.1	70	95	3.8	2/10	2
SAV-207	LAB 206B	10"	800	95	50	3	Y	PHOENIX MAVA110M	21.6	70	95	2.2	2/10	1
SAV-301A	LAB 301	2-10"	1600	365	50	3	Y	PHOENIX MAVA210M	51.8	70	100	5.2	2/10	2
SAV-301B	LAB 301	2-10"	1600	365	50	3	Y	PHOENIX MAVA210M	51.8	70	100	5.2	2/10	2
SAV-320	LAB 301B	8"	530	35	50	3	Y	PHOENIX MAVA108M	17.2	70	100	1.7	2/10	1
SAV-303	LAB 303	2-10"	1600	390	50	3	Y	PHOENIX MAVA210M	51.8	70	100	5.2	2/10	2
SAV-306A	LAB 305	2-12"	2250	675	50	3	Y	PHOENIX MAVA212M	72.9	70	100	7.3	2/10	2
SAV-306B	LAB 305	2-12"	2250	675	50	3	Y	PHOENIX MAVA212M	72.9	70	100	7.3	2/10	2
SAV-307	LAB 305B	10"	715	150	50	3	Y	PHOENIX MAVA110M	23.2	70	100	2.3	2/10	1

REMARKS:

1. SINGLE CONFIGURATION
2. DUAL CONFIGURATION
3. CONSTANT VOLUME

FUME EXHAUST AIR VALVE SCHEDULE

UNIT NUMBER	FUME HOOD	INLET SIZE (IN. DIA.)	AIRFLOW RANGE		MAXIMUM NC LEVEL	MAXIMUM S.P. LOSS (IN. W.G.)	CONTROLLER YES/NO (Y/N)	BASIS OF DESIGN	REMARKS
			MAXIMUM (CFM)	MINIMUM (CFM)					
FEV-102-22	FH-102-22	10"	505	440	50	3	Y	PHOENIX EXVB110M	1.4
FEV-106-1	EXISTING HOOD	2-12"	1700	300	50	3	Y	PHOENIX EXVB212M	2
FEV-106-2	EXISTING HOOD	2-12"	1700	300	50	3	Y	PHOENIX EXVB212M	2
FEV-201-1	FH-101-14	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-201-2	FH-101-15	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-201-3	FH-101-16	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-201-4	FH-101-17	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-201-5	FH-101-18	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-201-6	FH-101-19	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-202-1	FH-202-20	12"	865	300	50	3	Y	PHOENIX EXVB114M	1.4
FEV-202-2	FH-202-21	12"	865	300	50	3	Y	PHOENIX EXVB114M	1.4
FEV-205-1	EXISTING HOOD	12"	1000	175	50	3	Y		1
FEV-205-2	EXISTING HOOD	12"	1000	175	50	3	Y		1
FEV-206-1	FH-206-23	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-206-2	FH-206-24	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-206-3	FH-206-25	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-206-4	FH-206-26	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-206-5	FH-206-27	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-206-6	FH-206-28	10"	505	200	50	3	Y	PHOENIX EXVB110M	1.4
FEV-207-1	FH-206B-29	12"	865	145	50	3	Y	PHOENIX EXVB114M	1.4
FEV-301-1	FH-301-11	10"	505	200	50	3	Y	PHOENIX EXVB112M	1.4
FEV-301-2A	FH-301-10	10"	505	100	50	3	Y	PHOENIX EXVB108M	1.3,4
FEV-301-2B	FH-301-10	10"	505	100	50	3	Y	PHOENIX EXVB108M	1.3,4
FEV-301-3	FH-301-9	12"	865	200	50	3	Y	PHOENIX EXVB114M	1.4
FEV-301-4	FH-301-12	10"	505	200	50	3	Y	PHOENIX EXVB114M	1.4
FEV-301B-1	FH-301B-13	8"	385	100	50	3	Y	PHOENIX EXVB110M	1.4
FEV-303-1	FH-303-8	12"	1035	500	50	3	Y	PHOENIX EXVB114M	1.4
FEV-305-1	FH-305-1	12"	865	200	50	3	Y	PHOENIX EXVB114M	1.4
FEV-305-2A	FH-305-2	10"	435	100	50	3	Y	PHOENIX EXVB110M	1.3,4
FEV-305-2B	FH-305-2	10"	435	100	50	3	Y	PHOENIX EXVB110M	1.3,4
FEV-305-3A	FH-305-3	10"	435	100	50	3	Y	PHOENIX EXVB110M	1.3,4
FEV-305-3B	FH-305-3	10"	435	100	50	3	Y	PHOENIX EXVB110M	1.3,4
FEV-305-4	FH-305-4	12"	865	200	50	3	Y	PHOENIX EXVB114M	1.4
FEV-305-5	FH-305-5	12"	625	200	50	3	Y	PHOENIX EXVB112M	1.4
FEV-305-6	FH-305-6	12"	625	200	50	3	Y	PHOENIX EXVB112M	1.4
FEV-305B-1	FH-305B-7	12"	865	200	50	3	Y	PHOENIX EXVB114M	1.4

REMARKS:

1. SINGLE CONFIGURATION
2. DOUBLE CONFIGURATION
3. INTERLOCK FUME HOOD EXHAUST VALVES (A AND B).
4. FEV MINIMUM IS ACHIEVED UTILIZING RESTRICTED BYPASS IN THE FUME HOOD.

VARIABLE VOLUME BOX SCHEDULE

SYMBOL	SERVES	CAPACITY (CFM)		MAX PRESS DROP (IN WG)	MAX. NOISE (NC)	INLET SIZE CONN (IN)	HOT WATER HEATING COIL					REMARKS
		MAX	MIN.				CAPACITY (MBH)	EAT (°F)	LAT (°F)	GPM	ROWS/ FPI	
VAV-001	LAB 006	850	480	0.5	35	8	23.0	70	95	2.3	2/10	
VAV-002	LOUNGE 005	320	130	0.5	35	4	8.6	70	95	0.9	2/10	
CAV-003	CHEM STORAGE 004	440	440	0.5	35	12	11.9	70	95	1.2	2/10	1
VAV-004	FREEZER STORAGE	900	100	0.5	35	8	-	-	-	-	-	2
CAV-008	CORRIDOR 00	360	360	0.5	35	8	9.7	70	95	1.0	2/10	1
VAV-009	OFFICE 001/001A	980	330	0.5	35	8	26.5	70	95	2.6	2/10	
VAV-011	CLASSROOM 002	1200	400	0.5	35	10	32.4	70	95	3.2	2/10	
CAV-012	RESTROOMS 003	270	270	0.5	35	4	8.7	70	100	0.9	2/10	1
VAV-015	LAB 007	1500	500	0.5	35	10	40.5	70	95	4.1	2/10	
VAV-100	CLASSROOM 100	2520	840	0.5	35	12	68.0	70	95	6.8	2/10	
VAV-100A	OFFICE 100A	200	67	0.5	35	4	5.4	70	95	0.5	2/10	
VAV-107	OFFICE 106A	200	100	0.5	35	5	5.4	70	95	0.5	2/11	
VAV-110	SEMINAR 105	800	267	0.5	35	8	21.6	70	95	2.2	2/10	
VAV-114	OFFICE 103B/104B/104A	1200	400	0.5	35	10	32.4	70	95	3.2	2/10	
VAV-116	OFFICE 103A	450	150	0.5	35	6	12.2	70	95	1.2	2/10	
CAV-112	CORRIDOR 110	450	450	0.5	35	6	12.2	70	95	1.2	2/10	1
CAV-202	OFFICE 202A	150	200	0.5	35	4	4.9	70	100	0.5	2/10	1
CAV-207	OFFICE 206A	200	200	0.5	35	4	6.5	70	100	0.6	2/10	1
CAV-213	RESTROOMS	150	50	0.5	35	4	4.9	70	100	0.5	2/10	1
CAV-209	CORRIDOR 210	660	660	0.5	35	8	17.8	70	95	1.8	2/10	1
CAV-320	OFFICE 301A	200	200	0.5	35	4	6.5	70	100	0.6	2/10	1
VAV-302	INSTRUMENT ROOM 302	1050	200	0.5	35	8	34.0	70	100	3.4	2/10	
CAV-305	OFFICE 305A	200	200	0.5	35	4	6.5	70	100	0.6	2/10	1
VAV-311	WAITING 304A	180	60	0.5	35	4	5.8	70	100	0.6	2/10	
VAV-312	OFFICE 304	600	200	0.5	35	8	19.4	70	100	1.9	2/10	
CAV-316	RESTROOMS	150	150	0.5	35	4	4.9	70	100	0.5	2/10	1
CAV-309	CORRIDOR	770	770	0.5	35	8	24.9	70	100	2.5	2/10	1

REMARKS:

1. CONSTANT VOLUME BOX
2. DO NOT PROVIDE HEATING COIL.

GENERAL EXHAUST AIR VALVE SCHEDULE

UNIT NUMBER	SERVES	INLET SIZE (IN. DIA.)	AIRFLOW RANGE		MAXIMUM NC LEVEL	MAXIMUM S.P. LOSS (IN. W.G.)	CONTROLLER YES/NO (Y/N)	BASIS OF DESIGN	REMARKS
			MAXIMUM (CFM)	MINIMUM (CFM)					
GEV-101	LAB 101	14"	2140	500	50	3	Y	PHOENIX EXVA114M	1
GEV-102	LAB 102	12"	1210	90	50	3	Y	PHOENIX EXVA112M	1
GEV-106A	MACHINE SHOP 106A	2-10"	1400	100	50	3	Y	PHOENIX EXVA210M	2
GEV-106B	MACHINE SHOP 106A	2-10"	1400	100	50	3	Y	PHOENIX EXVA210M	2
GEV-201	LAB 201	12"	3045	90	50	3	Y	PHOENIX EXVA112M	1
GEV-202	LAB 202	14"	1600	50	50	3	Y	PHOENIX EXVA114M	1
GEV-211	LAB 205	2-10"	1650	100	50	3	Y	PHOENIX EXVA210M	2
GEV-206A	LAB 206	12"	985	50	50	3	Y	PHOENIX EXVA110M	1
GEV-206B	LAB 206	12"	985	50	50	3	Y	PHOENIX EXVA110M	1
GEV-207	LAB 206B	10"	760	50	50	3	Y	PHOENIX EXVA110M	1
GEV-301	LAB 301	2-12"	2650	180	50	3	Y	PHOENIX EXVA212M	2
GEV-320	LAB 301B	8"	530	35	50	3	Y	PHOENIX EXVA108M	1
GEV-303	LAB 303	12"	1300	90	50	3	Y	PHOENIX EXVA112M	1
GEV-306	LAB 305	2-14"	3550	400	50	3	Y	PHOENIX EXVA214M	2
GEV-307	LAB 305B	10"	615	50	50	3	Y	PHOENIX EXVA110M	1
GEV-310	STOCKROOM 203	14"	1450	1450	50	3	Y	PHOENIX EXVA114M	1,4

REMARKS:

1. SINGLE CONFIGURATION
2. DUAL CONFIGURATION
3. TRIPLE-CONFIGURATION
4. CONSTANT VOLUME

EXHAUST FAN SCHEDULE



PLUMBING, MECHANICAL &
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MEP Design Security Sustainable Design
Commissioning Design Build

STRUCTURAL ENGINEERS:

schaefer

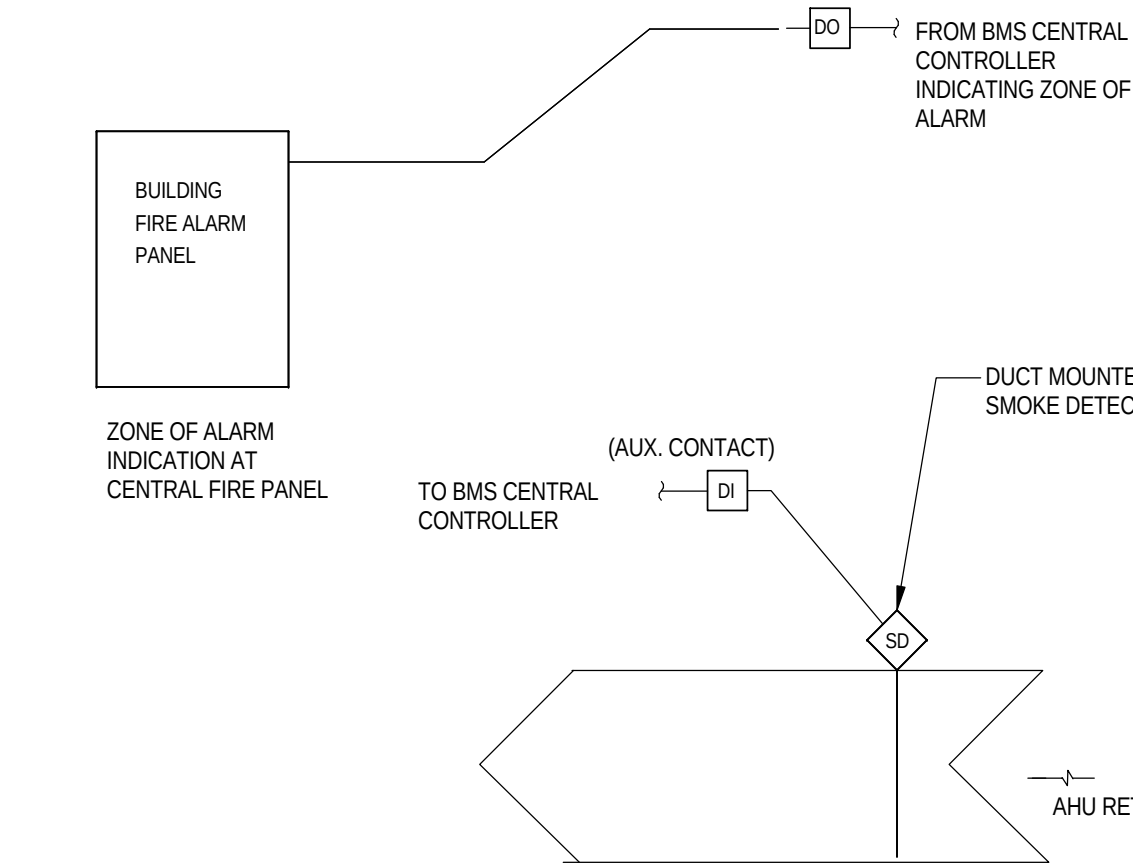
10411 Medallion Drive, Suite 121
Cincinnati, OH 45241
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F: 513.542.5540

SHEET REVISION		
REV #	DATE	DESCRIPTION
1	3/07/2017	FOR BIDDING AND PERMIT

DATE	DESCRIPTION
03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

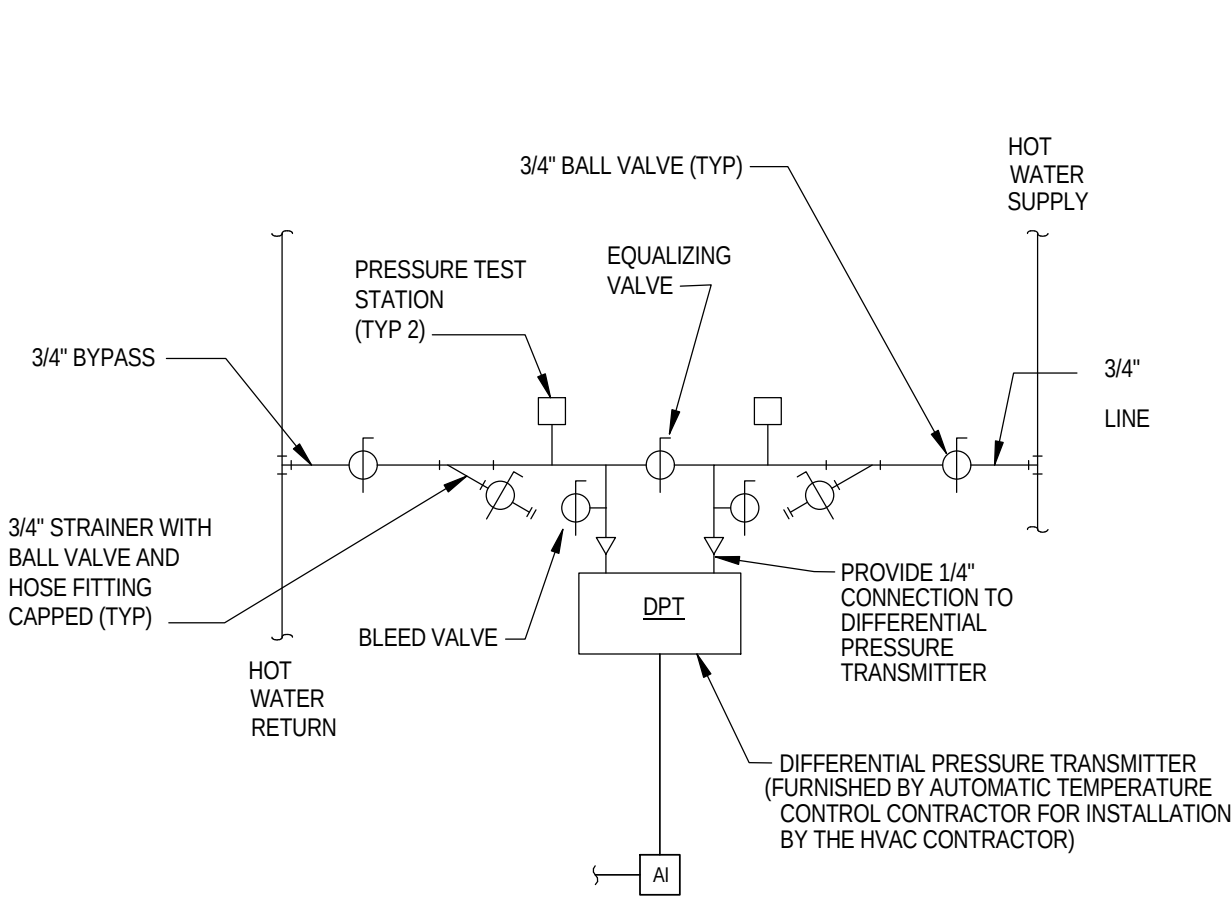
CONTROL
DIAGRAMS

M700



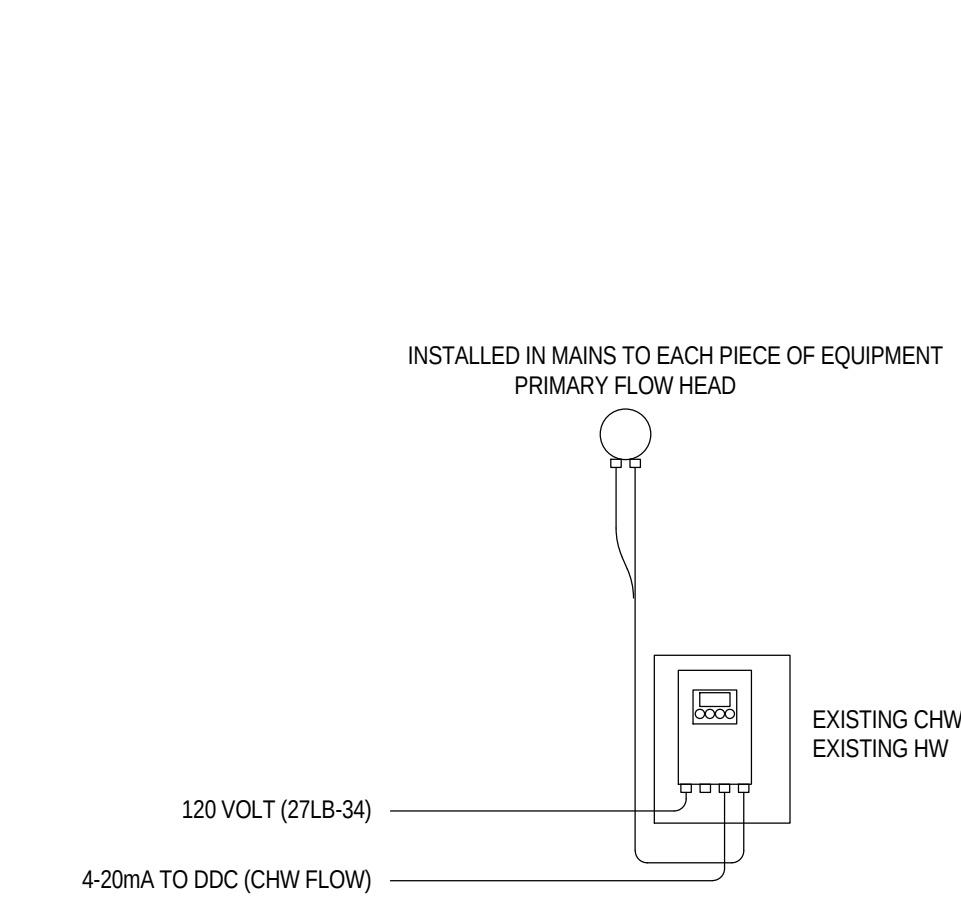
CONTROL DIAGRAM
FIRE ALARM INTERLOCK

SCALE: N.T.S.



PIPING DIAGRAM
DIFFERENTIAL PRESSURE TRANSMITTER

SCALE: N.T.S.

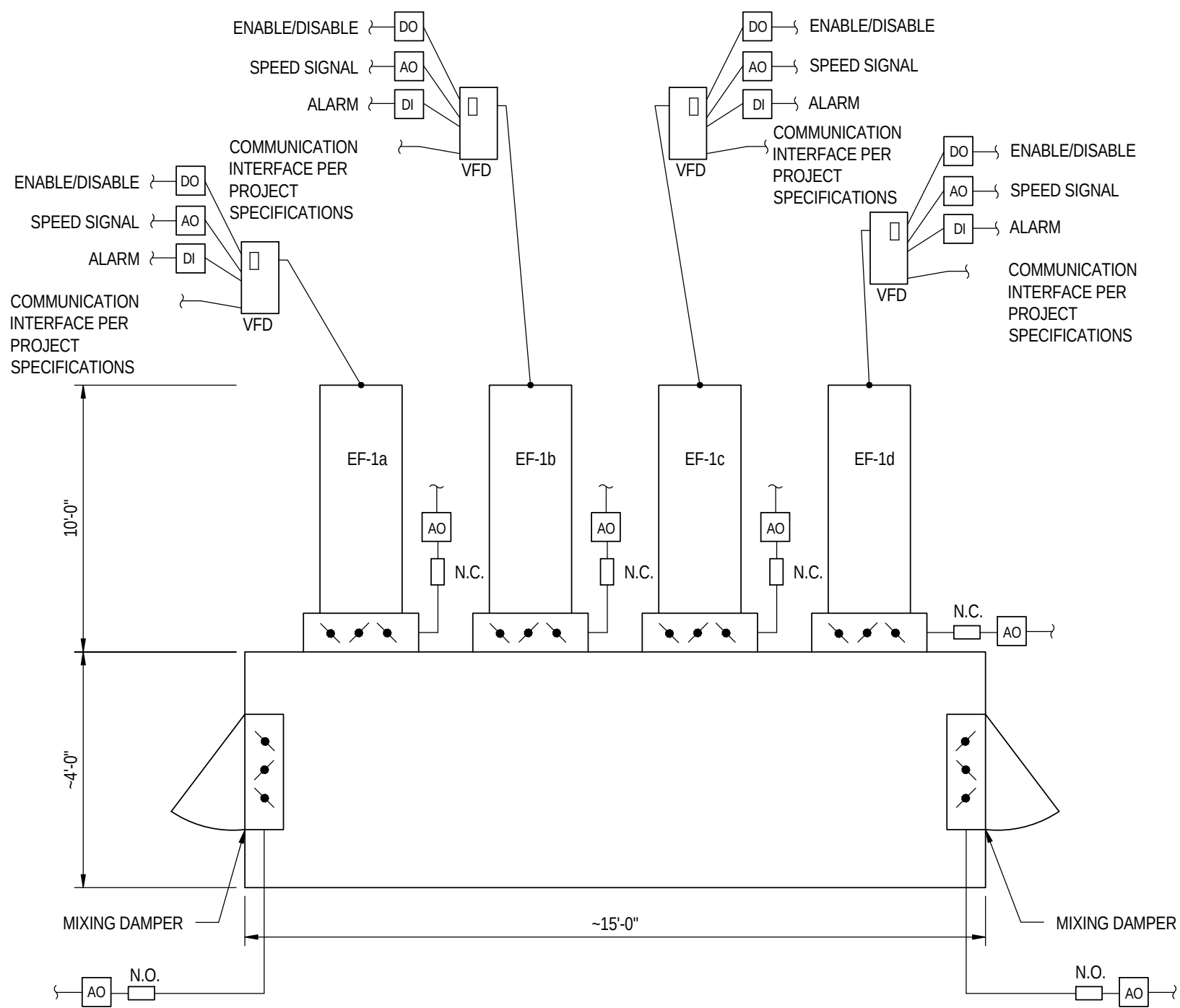


CONTROL DIAGRAM - HW, CHW
FLOW METER

SCALE: N.T.S.

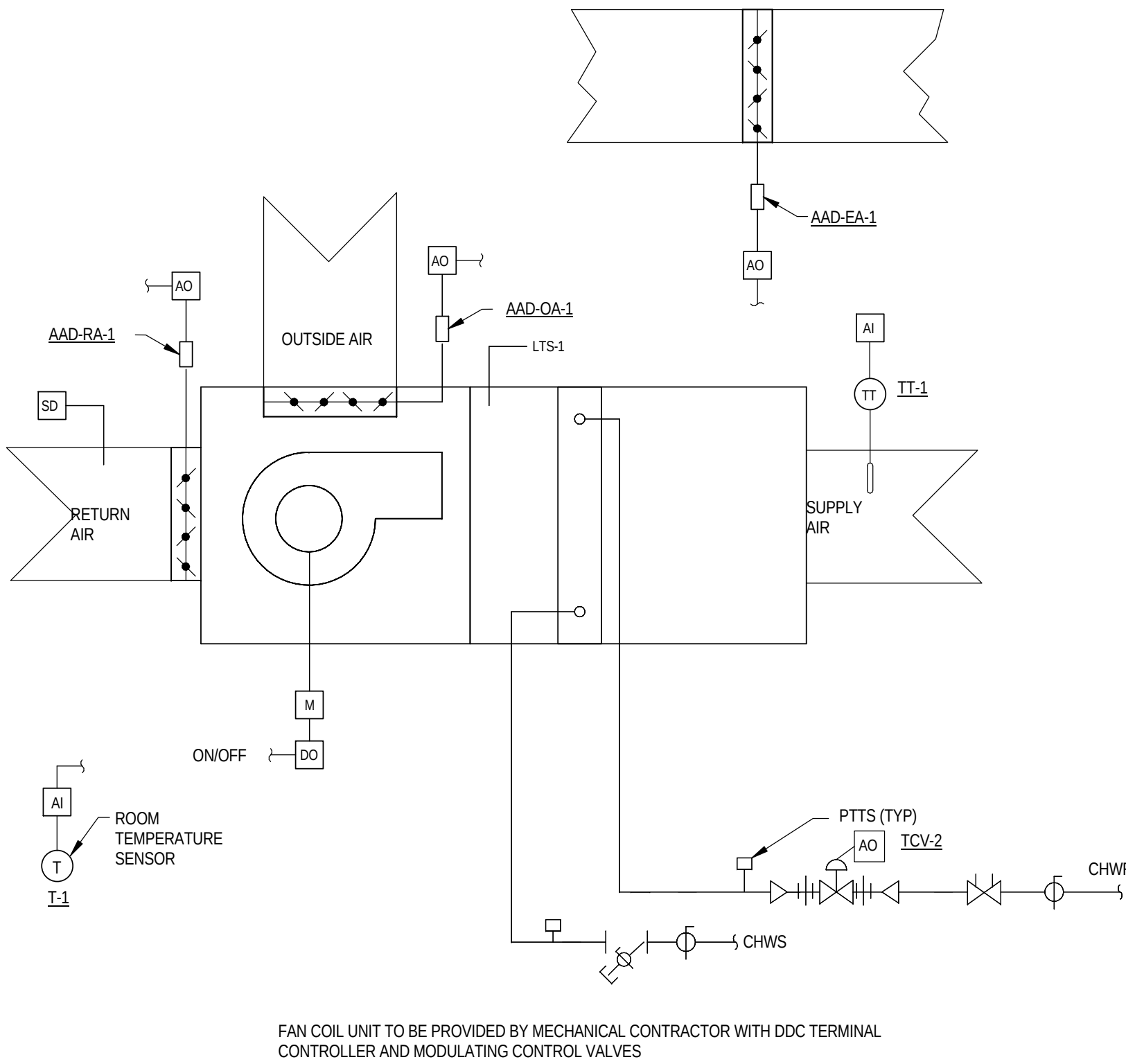
CONTROL SYMBOL LEGEND

AI	ANALOG INPUT SIGNAL
AO	ANALOG OUTPUT SIGNAL
DI	DIGITAL INPUT SIGNAL
DO	DIGITAL OUTPUT SIGNAL
ES	END SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
SPT	STATIC PRESSURE TRANSMITTER
LTS	LOW TEMPERATURE SWITCH
AFT	AIR FLOW TRANSMITTER
ES	END SWITCH
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
TT	TEMPERATURE TRANSMITTER
T	ROOM TEMPERATURE SENSOR
H	RELATIVE HUMIDITY SENSOR
S _{CO2}	CARBON DIOXIDE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
HT	HUMIDITY TRANSMITTER
SD	DUCT MOUNTED SMOKE DETECTOR
CTS	CURRENT TRANSFORMER SWITCH



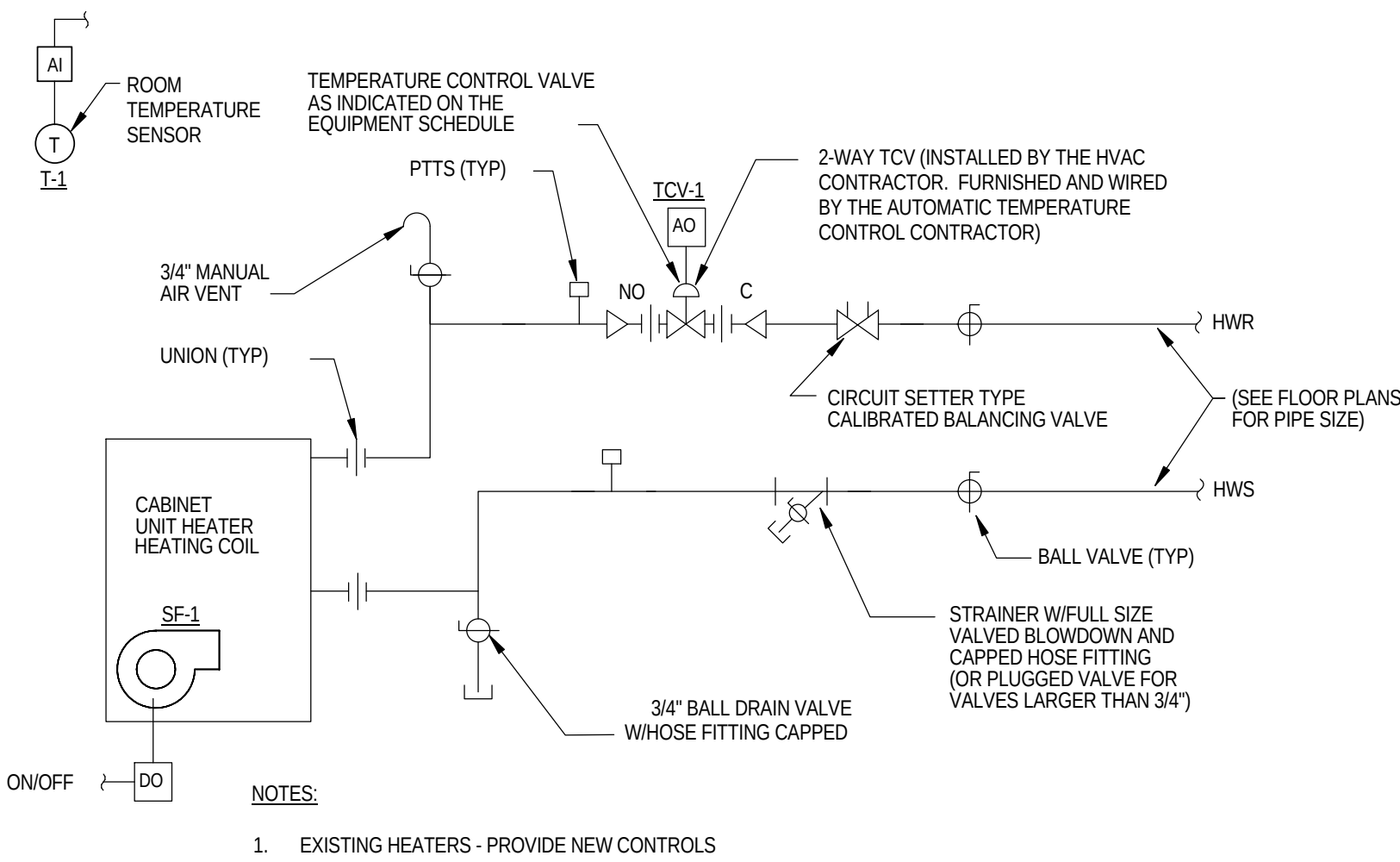
CONTROL DIAGRAM
PLENUM EXHAUST

SCALE: N.T.S.



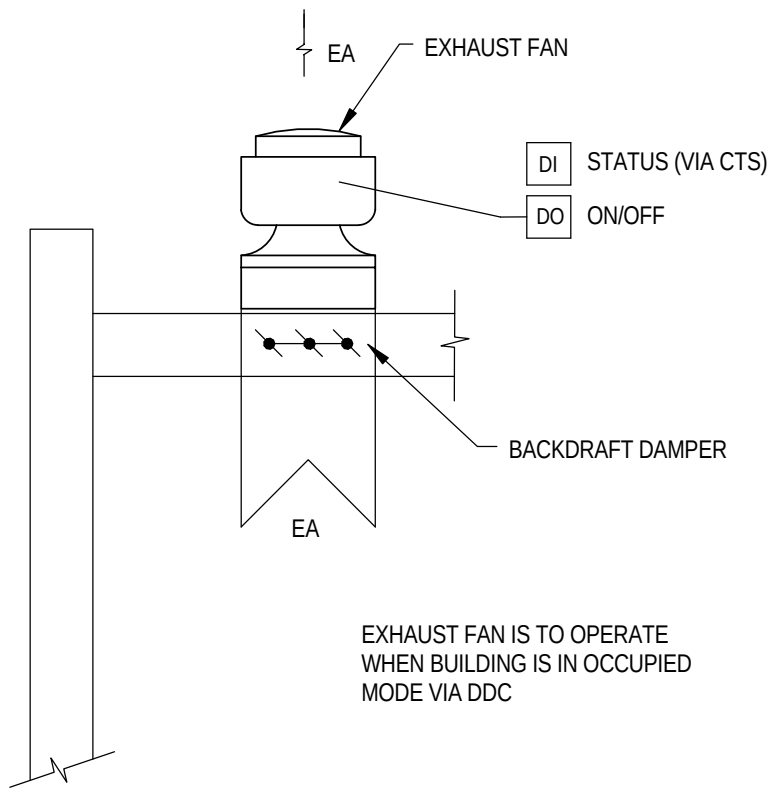
CONTROL DIAGRAM
AIR HANDLING UNIT (AHU-2)

SCALE: N.T.S.



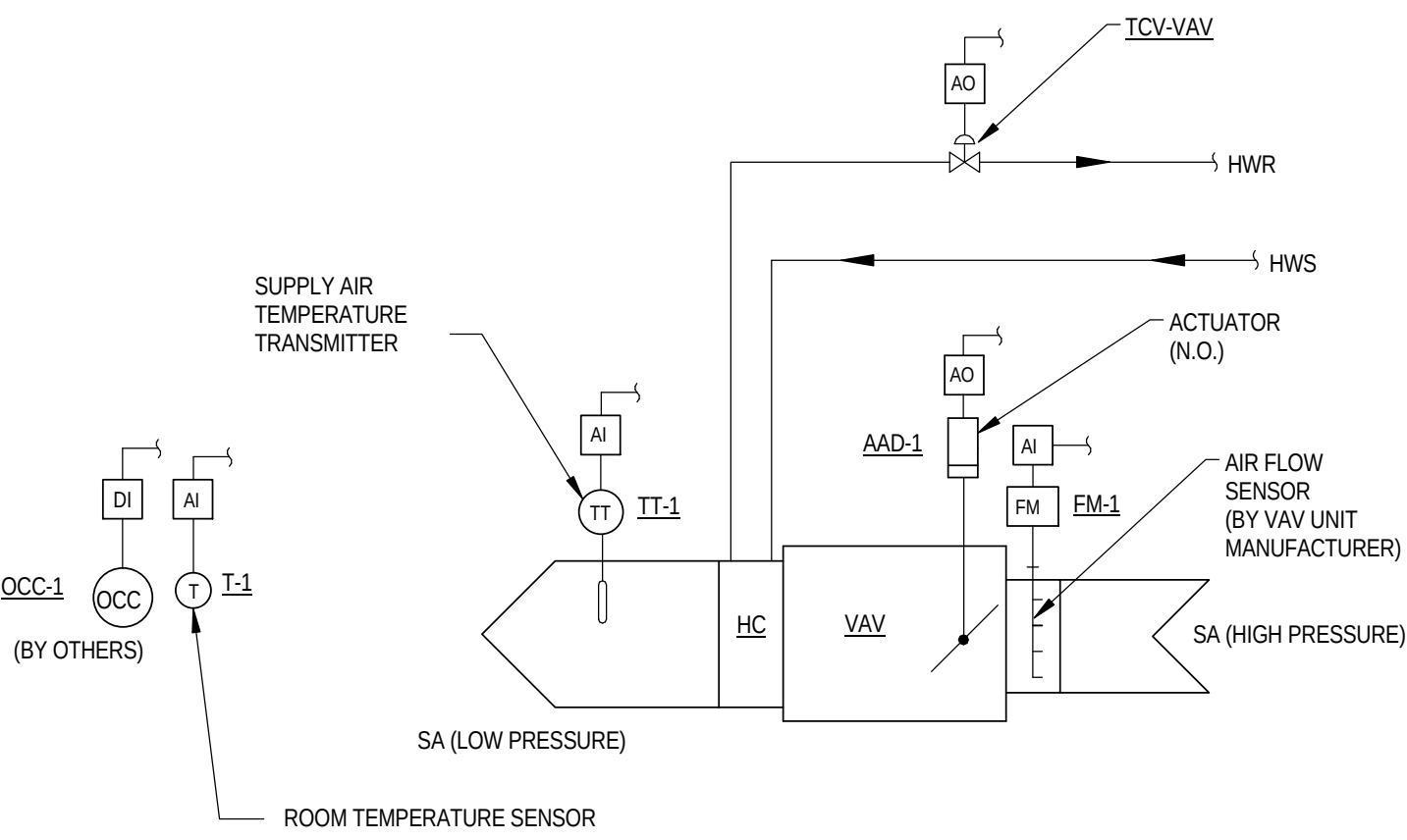
CONTROL DIAGRAM
HOT WATER CABINET UNIT HEATER

SCALE: N.T.S.



CONTROL DIAGRAM
LARGE TOILET ROOM EXHAUST FAN

SCALE: N.T.S.



CONTROL DIAGRAM - VAV & SAV UNITS
HOT WATER HEAT

SCALE: N.T.S.

Xavier University
Logan Hall
Renovation

3800 Victory Parkway
Cincinnati, OH 45207
Project #: 16015

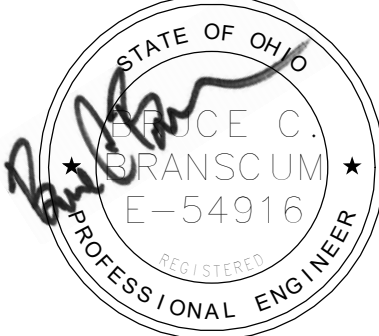
ARCHITECT



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MEP Design Security Sustainable Design
Commissioning Design Build

STRUCTURAL ENGINEERS:

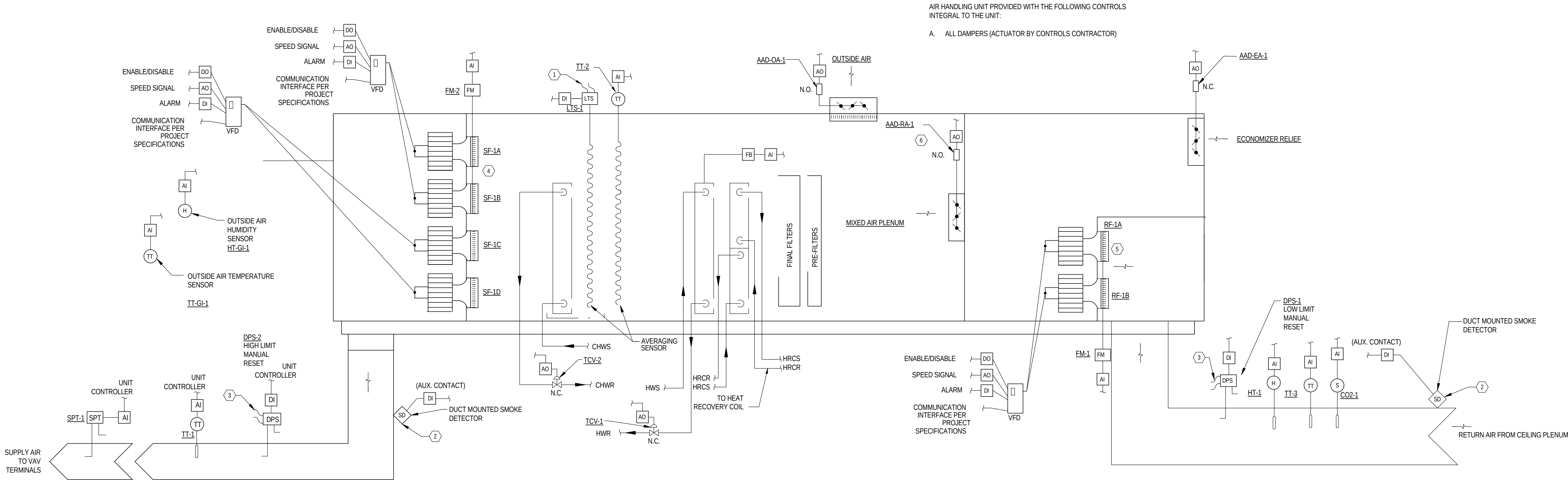
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F: 513.542.5540

REVISION	SHEET REVISION		
	REV #	DATE	DESCRIPTION
	1	3/07/2017	FOR BIDDING AND PERMIT

ISSUE	DATE	DESCRIPTION
	03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**CONTROL
DIAGRAMS**

SHEET NO.
M701



- NOTES:
1. THE FREEZE-STAT IS TO BE HARD WIRED TO DE-ACTIVATE THE SUPPLY AIR FAN UPON DETECTION OF THE LOW TEMPERATURE LIMIT. THE FREEZE-STAT IS TO BE MANUALLY RESET AND INITIALLY SET AT 35 DEGREES FAHRENHEIT. (THIS SAFETY IS TO BE WIRED SUCH THAT IT CAN NOT BE BYPASSED BY THE HAND POSITION OF THE HOA SWITCH)
 2. SMOKE DETECTORS ARE TO BE HARD WIRED TO DE-ACTIVATE THE SYSTEM SUPPLY AND RETURN AIR FANS UPON DETECTION OF SMOKE. THE SMOKE DETECTOR AUXILIARY CONTACT IS TO BE MONITORED BY THE BUILDING AUTOMATION SYSTEM. THE SMOKE DETECTOR IS TO BE FURNISHED BY THE PROJECT ELECTRICAL CONTRACTOR. (THIS SAFETY IS TO BE WIRED SUCH THAT IT CAN NOT BE BYPASSED BY THE HAND POSITION OF THE HOA SWITCH)
 3. DIFFERENTIAL PRESSURE SWITCH IS TO BE HARD WIRED TO DE-ACTIVATE THE SYSTEM FAN UPON DETECTION OF THE HIGH (OR LOW) LIMIT SET POINT. (THIS SAFETY IS TO BE WIRED SUCH THAT IT CAN NOT BE BYPASSED BY THE HAND POSITION OF THE HOA SWITCH).
 4. REFER TO SCHEDULE FOR NUMBER AND SIZE OF SUPPLY FANS.
 5. REFER TO SCHEDULE FOR NUMBER AND SIZE OF RETURN FANS.
 6. REFER TO VENDOR SUBMITTAL DRAWINGS FOR NUMBER AND SIZE OF RETURN AIR DAMPERS

**CONTROL DIAGRAM - AIR HANDLING
UNIT WITH HEAT RECOVERY**

SCALE: N.T.S.

1
M701

GENERAL NOTES:

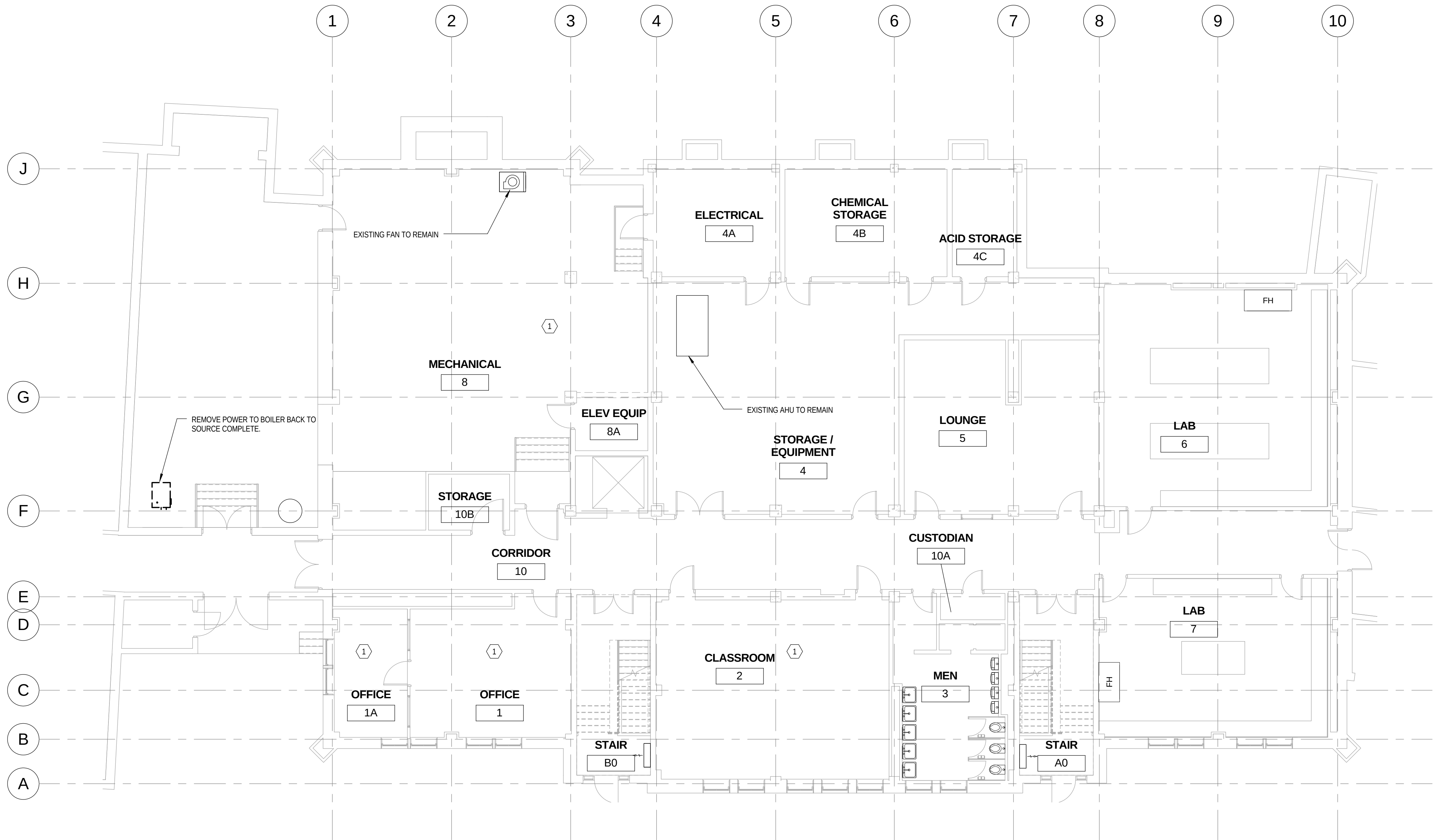
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- C. REFER TO SHEET E200 FOR ELECTRIC LEGEND.
- D. PRIOR TO SUBMITTING BID, THE ELECTRICAL CONTRACTOR SHALL PERFORM A DETAILED WALK-THROUGH FIELD INSPECTION REVIEWING EXISTING CONDITIONS, STRUCTURE, DEVICE/EQUIPMENT LOCATIONS AND SHALL MAKE ALL NECESSARY ALLOWANCES FOR ALL REQUIRED ELECTRICAL DEMOLITION AND NEW WORK PER CONSTRUCTION DOCUMENTATION.
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- I. THE ELECTRICAL CONTRACTOR WILL REMOVE EXPOSED ELECTRIC ITEMS IN RENOVATED AREAS INCLUDING FIXTURES, RACEWAYS, WIRE, BOXES, DEVICES AND OTHER ELECTRICAL EQUIPMENT. ALL WIRING AND ACCESSIBLE RACEWAYS SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE.
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DRAWING NOTES:

1. HVAC EQUIPMENT BEING REMOVED BY OTHERS. REMOVE CONDUIT AND WIRE BACK TO PANEL COMPLETE. COORDINATE DEMO SCOPE WITH HVAC CONTRACTOR.



DEMOLITION - LOWER LEVEL ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

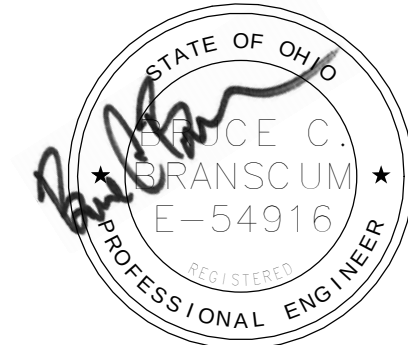
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Project #: 16015



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SHEET REVISION		
REV #	DATE	DESCRIPTION

ISSUE		DATE	DESCRIPTION
		03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**DEMOLITION
LOWER LEVEL
ELECTRICAL
PLAN**

SHEET NO.
ED100

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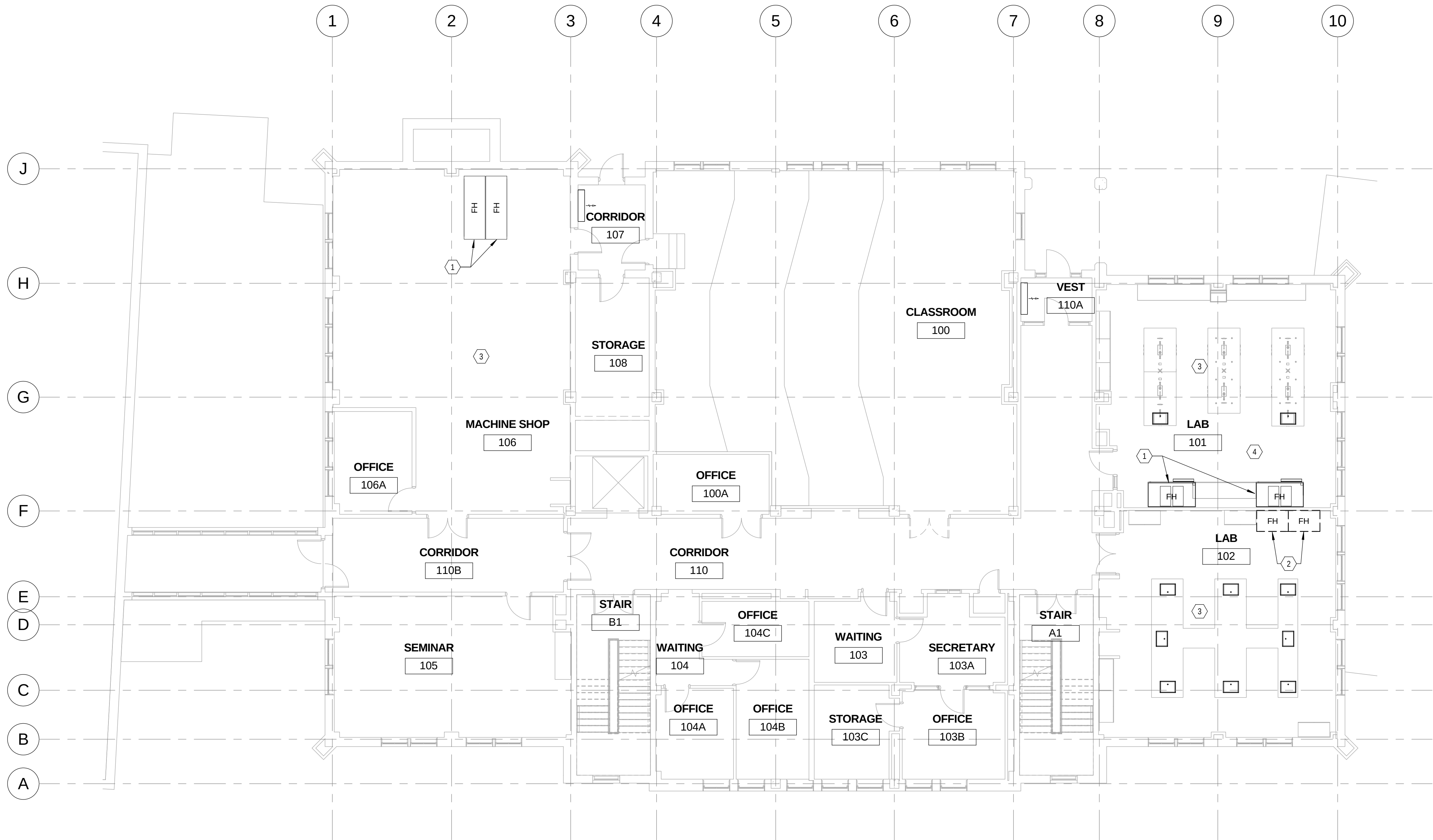
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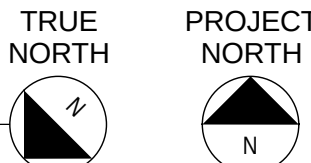
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4. HVAC EQUIPMENT TO BE REMOVED. REMOVE CONDUIT AND WIRE TO PANEL COMPLETE.



DEMOLITION - FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



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Project #: 16015



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SHEET REVISION		
REV #	DATE	DESCRIPTION

ISSUE		DATE	DESCRIPTION
		03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**DEMOLITION
FIRST FLOOR
ELECTRICAL
PLAN**

SHEET NO.
ED101

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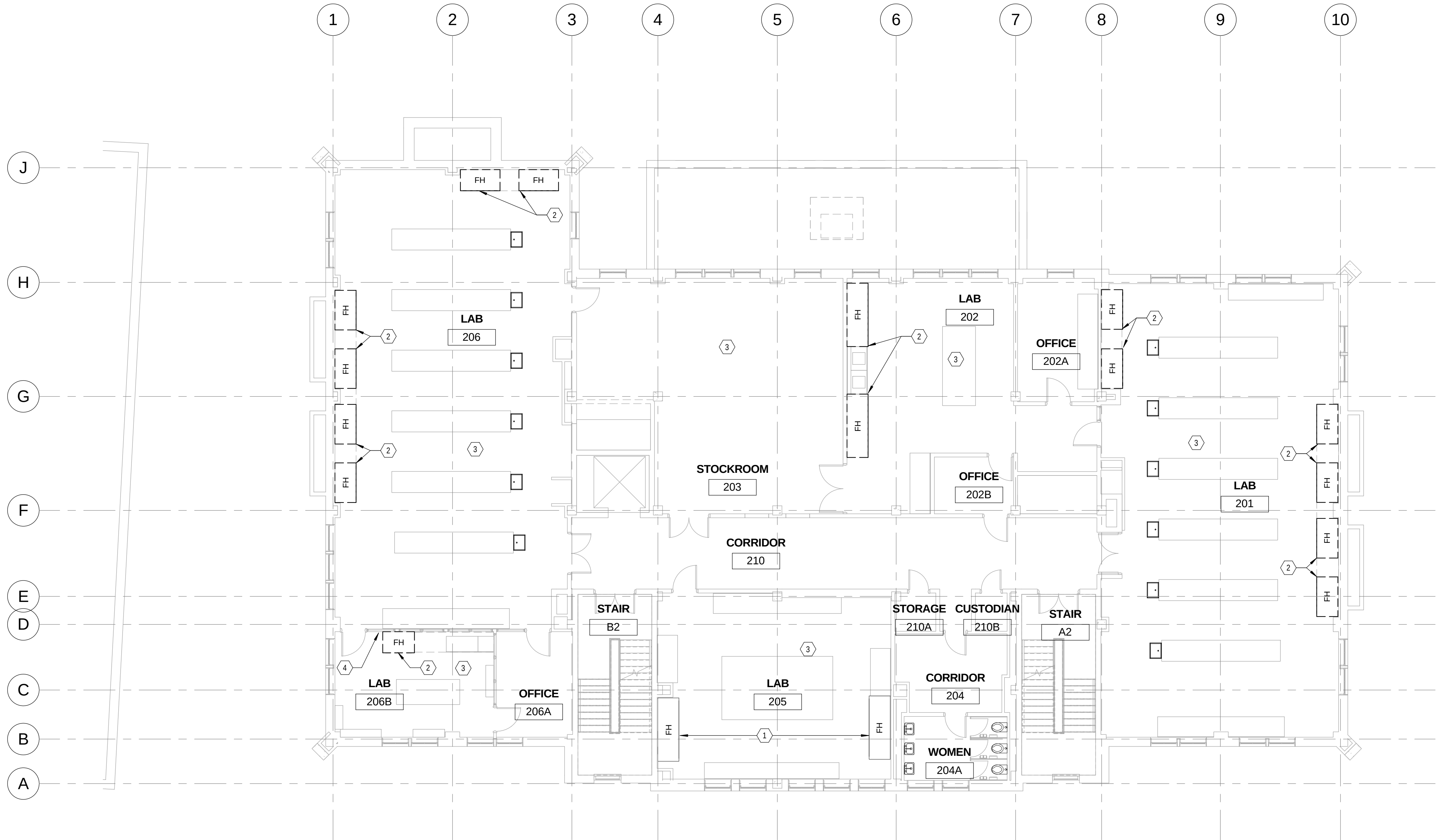
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4. DISCONNECT EXISTING SWITCH AND RECEPTACLE SERVING EXISTING VACUUM PUMP. EXISTING CIRCUIT TO BE REUSED IN NEW WORK. SEE SHEET E102 FOR MORE INFORMATION.



DEMOLITION - SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

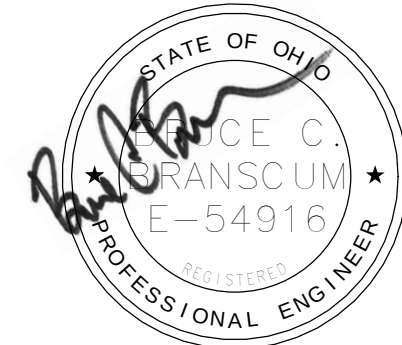
3800 Victory Parkway
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Project #: 16015



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SHEET REVISION		
REV #	DATE	DESCRIPTION

ISSUE		DATE	DESCRIPTION
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DWG TITLE
**DEMOLITION
SECOND FLOOR
ELECTRICAL
PLAN**

SHEET NO.
ED102

GENERAL NOTES:

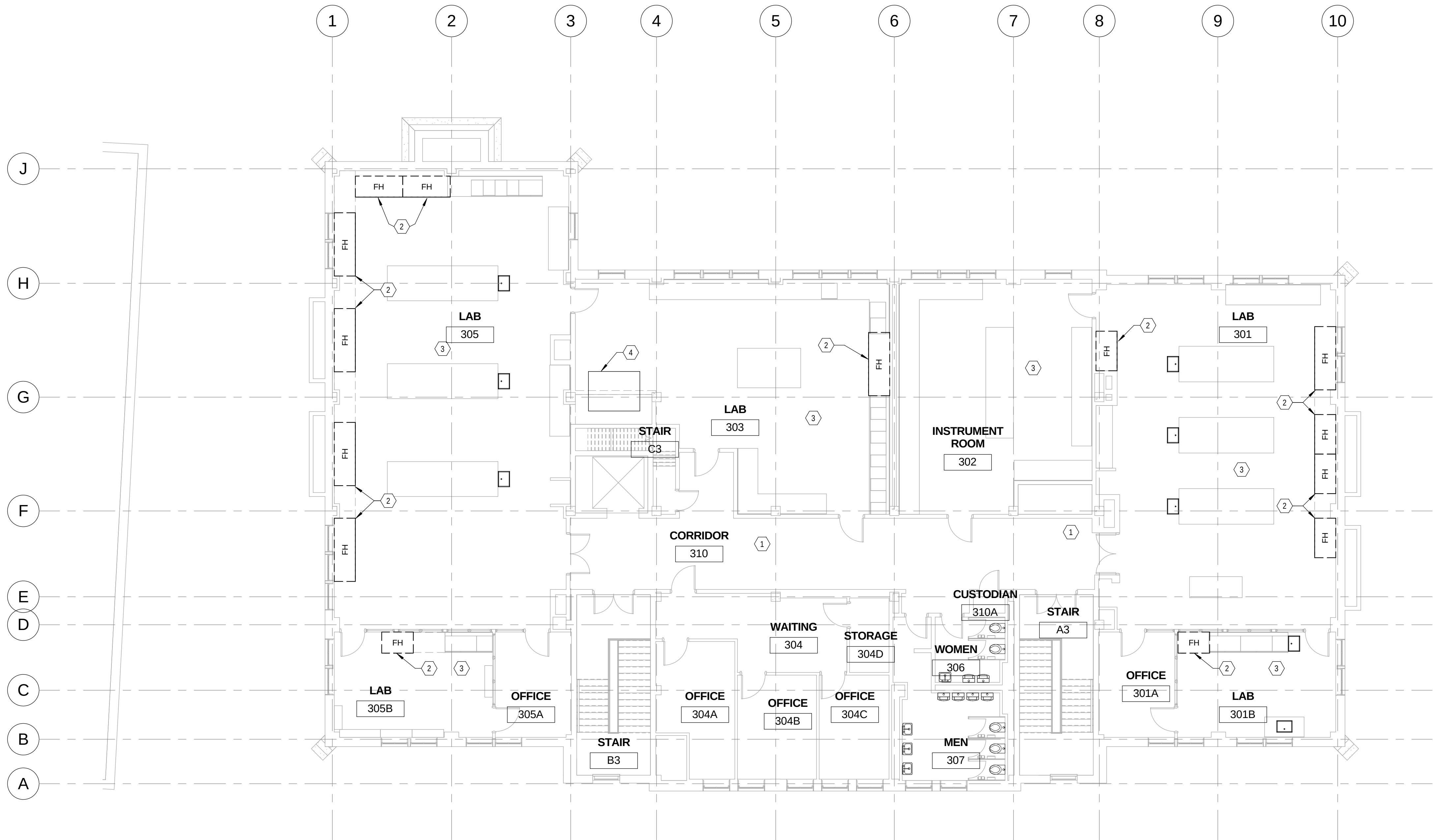
- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY IN ACCORDANCE WITH 2014 NATIONAL ELECTRIC CODE (NEC), 2011 OHIO BUILDING CODE (OBC) INCLUDING REFERENCED CODES AND STANDARDS. MATERIALS PROVIDED SHALL BE LISTED FOR INTENT OF USE, NEW AND DEFECT FREE.
- B. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. NO COMMENCEMENT OF WORK MAY PROCEED UNTIL PROJECT COORDINATION HAS BEEN COMPLETED BY ALL APPLICABLE CONTRACTORS AND APPROVED BY OWNER'S REPRESENTATIVE. COORDINATE SCHEDULING OF WORK WITH PROJECT PHASING REQUIREMENTS. WORK TO BE INSTALLED WITHIN COMPLETE COMPLIANCE OF THE PROJECT SCHEDULE.
- C. REFER TO SHEET E200 FOR ELECTRIC LEGEND.
- D. PRIOR TO SUBMITTING BID, THE ELECTRICAL CONTRACTOR SHALL PERFORM A DETAILED WALK-THROUGH FIELD INSPECTION REVIEWING EXISTING CONDITIONS, STRUCTURE, DEVICE/EQUIPMENT LOCATIONS AND SHALL MAKE ALL NECESSARY ALLOWANCES FOR ALL REQUIRED ELECTRICAL DEMOLITION AND NEW WORK PER CONSTRUCTION DOCUMENTATION.
- E. DRAWINGS OR SPECIFICATIONS SPECIFIC TO THE ELECTRICAL CONTRACTOR'S TRADE SHALL NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTATION FOR COMPLETE SCOPE OF WORK.
- F. WHERE THE ELECTRICAL CONTRACTOR HAS TAKEN EXCEPTIONS TO PROVIDING ANY RELATED DEMOLITION OR NEW WORK, SUCH EXCEPTIONS SHALL BE STATED IN DETAIL WITHIN BID. FAILURE TO NOTE EXCEPTIONS SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR THE RESPONSIBILITY TO COMPLETE ALL REQUIRED WORK OR PROVIDING REQUIRED MATERIAL TO COMPLETE SCOPE OF WORK. NO SUBSEQUENT ALLOWANCES TO THE CONTRACT COST SHALL BE MADE AS A RESULT OF THE ELECTRICAL CONTRACTOR'S FAILURE TO EXAMINE THE SITE IN DETAIL OR REVIEW ALL CONTRACT DOCUMENTS. NOT ALL DEMOLITION ITEMS ARE INDICATED BUT LABOR AND MATERIAL COSTS SHALL BE INCLUDED UNDER BASE BID. ELECTRICAL CONTRACTOR'S DEMOLITION SHALL NOT BE LIMITED TO POWER OR LIGHTING SYSTEMS BUT SHALL ALSO INCLUDE OTHER ELECTRICAL SYSTEMS SUCH AS LIFE SAFETY, COMMUNICATIONS AND SECURITY SYSTEMS.
- G. IT IS RECOGNIZED THAT PORTIONS OF ELECTRICAL SYSTEMS MAY BE RENDERED TEMPORARILY INACTIVE BY THE DEMOLITION PROCESS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INVESTIGATE, COORDINATE AND PREVENT SUCH EVENTS FROM OCCURRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL AND LABOR TO RE-ROUTE, RELOCATE AND PROVIDE CORRECTIVE MEASURES AS NECESSARY TO PREVENT/RESTORE FUNCTIONS OF ELECTRICAL SYSTEMS.

- H. OUTAGES TO ANY ELECTRICAL SYSTEM SHALL BE FULLY COORDINATED WITH OWNER, ON-SITE REPRESENTATIVE AND OTHER TRADES. WHERE CONFLICTS EXIST BETWEEN DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY AND SHALL BE INSTALLED OR RESOLVED TO MEET OR EXCEED CODE REQUIREMENTS.
- I. THE ELECTRICAL CONTRACTOR WILL REMOVE EXPOSED ELECTRIC ITEMS IN RENOVATED AREAS INCLUDING FIXTURES, RACEWAYS, WIRE, BOXES, DEVICES AND OTHER ELECTRICAL EQUIPMENT. ALL WIRING AND ACCESSIBLE RACEWAYS SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE.
- J. IDENTIFICATION OF CIRCUITS AND FEEDERS SHALL BE OBTAINED BY THE ELECTRIC CONTRACTOR. PANELBOARD SCHEDULE SHALL BE UPDATED BY ELECTRIC CONTRACTOR WHERE ALTERATIONS ARE MADE. SCHEDULE SHALL BE COMPLAINT WITH NEC ARTICLE 408.4 BY THIS CONTRACTOR.
- K. NOT ALL DEMOLITION ITEMS MAY BE SHOWN. IT IS THE REQUIREMENT OF THE ELECTRICAL CONTRACTOR TO FIELD VERIFY AND ACCOUNT FOR ALL ITEMS IMPACTED BY THE RENOVATION PROCESS. ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH AREA OF WORK DURING THE BIDDING PROCESS. PRIOR TO TRENCHING, SAW CUTTING, CORING OR MAKING ANY STRUCTURAL MODIFICATIONS, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL INTEGRITY OF ANY ELECTRICAL SYSTEMS WHICH MAY BE COMPROMISED.
- L. PROVIDE PROTECTION TO THE FACILITY FROM DAMAGES OF ANY KIND DURING ALL PHASES OF WORK.
- M. ELECTRICAL CONTRACTOR SHALL IDENTIFY, TREAT AND DISPOSE OF ANY REGULATED ELECTRICAL DEMOLITION MATERIAL SUCH AS MERCURY SWITCHES, ASBESTOS COVERED WIRING, TRANSFORMERS, FLUIDS, FLUORESCENT BULBS, BALLASTS, BATTERIES, ETC. IN STRICT ACCORDANCE WITH LOCAL, STATE OR FEDERAL REGULATIONS. PROVIDE DUPLICATE PAPERWORK TO THE OWNER STATING COMPLIANCE FOR ANY REGULATED MATERIAL BEING DISPOSED OF.
- N. RACEWAY, WIRING AND ASSOCIATED CONTROLS WHICH ARE ACCESSED OR USED UNDER THIS PROJECT SHALL BE INSPECTED AND BROUGHT UP TO NEC 2014 CODE. THIS WORK SHALL APPLY ONLY TO THE EXTENT THAT UNCOVERED WORK IS IN THE IMMEDIATE PROJECT AREAS AFFECTED BY THE DEMOLITION AND NEW WORK. REVIEW OF THIS WORK SHALL BE DONE DURING THE BIDDING PROCESS. ALL COSTS ASSOCIATED WITH CODE COMPLIANCE SHALL BE INCLUDED IN BASE BID.

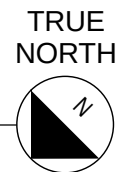
- O. ANY EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION OR CONSTRUCTION PROCESS WHICH, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICES, SHOULD BE REMEDIED, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY, IN WRITING. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL APPURTENANCES IN THE SCHEDULED DEMOLITION AREAS AND THE AREAS SCHEDULED TO BE REUSED. ALL DEVICE POWER SHOULD BE DISCONNECTS BACK TO THE SOURCE AND ALL PORTIONS OF THE DEMOLITION AREA MADE ELECTRICALLY "DEAD" FOR DEMOLITION OF EQUIPMENT.
- P. ANY CONDUIT OR WIRING THAT IS NOT TO BE REMOVED OR FEEDS OTHER REMAINING SECTIONS OF THE BUILDING SHALL BE RELOCATED AS NECESSARY AND REROUTED AND RECONNECTED AS REQUIRED TO REMAIN OPERATIONAL. MAINTAIN THE CONTINUITY OF ANY EXISTING CIRCUITS THAT MAY BE INTERRUPTED BY DEMOLITION OF WALLS AND OTHER STRUCTURES WITHIN THE SCOPE OF THIS PROJECT. WHERE CIRCUITS ARE LOOPED AND OUTLETS, CONTROLS, OR EQUIPMENT ARE REMOVED, MAKE ADJUSTMENTS AND CONNECTIONS TO RESTORE THE INVOLVED CIRCUITS. WORK AND MATERIALS ASSOCIATED WITH NOTED TASK SHALL BE INCLUDED IN THE BASE BID.
- Q. REFER TO THE SPECIFICATIONS, DIVISION 01, "SELECTIVE STRUCTURE DEMOLITION" FOR ADDITIONAL REQUIREMENTS.
- R. REMAINING FLUSH BACK BOXES FROM ELECTRICAL DEVICES (I.E. RECEPTACLES, SWITCHES, ETC.) DEMOED FROM EXTERIOR AND OTHER CMU WALLS SHALL BE COVERED WITH A NEW STAINLESS STEEL BLANK COVER PLATE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- S. ELECTRICAL CONTRACTOR TO MAINTAIN ALL WALL AND CEILING FIRE RATINGS WHEN PENETRATING OR REMOVING ITEMS THROUGH SUCH ASSEMBLIES. ELECTRICAL CONTRACTOR TO PATCH, COVER OR REPAIR AS REQUIRED FOR COMPLIANCE.
- T. THIS CONTRACTOR SHALL MAINTAIN THE FUNCTION OF ANY LIFE SAFETY SYSTEM DESIGNATED FOR PARTIAL DEMOLITION UNTIL THE NEW REPLACEMENT SYSTEM IS INSTALLED AND APPROVED FOR USE.
- U. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DEMOLITION PLANS FOR ADDITIONAL DETAILS REGARDING EQUIPMENT TO BE REMOVED. ALL EQUIPMENT WITH ELECTRICAL POWER SHALL HAVE THE ASSOCIATED WIRE AND RACEWAY REMOVED BACK TO THE SOURCE.

DRAWING NOTES:

1. REMOVE/REPLACE EXISTING DUCT MOUNTED SMOKE DETECTORS WITH NEW. COORDINATE WITH HVAC CONTRACTOR.
2. EXISTING FUME HOOD TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT POWER TO HOOD PRIOR TO REMOVAL BY OTHERS, RECONNECT NEW HOOD, SEE NEW WORK PLAN.
3. EXISTING LIGHTING AND SWITCHES TO REMAIN. NEW CEILING OCCUPANCY SENSOR (S) TO BE ADDED TO CONTROL LIGHTS AND HVAC. SEE NEW WORK PLAN.
4. EXISTING NMR TO REMAIN OPERATIONAL THROUGH CONSTRUCTION.



DEMOLITION - THIRD FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



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Renovation

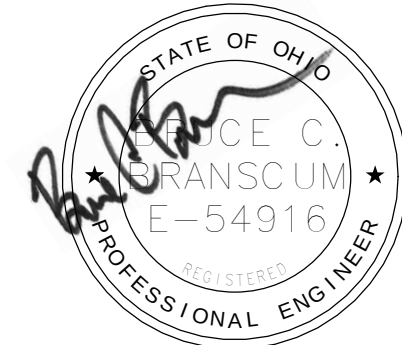
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DEMOLITION
THIRD FLOOR
ELECTRICAL
PLAN

ED103

GENERAL NOTES:

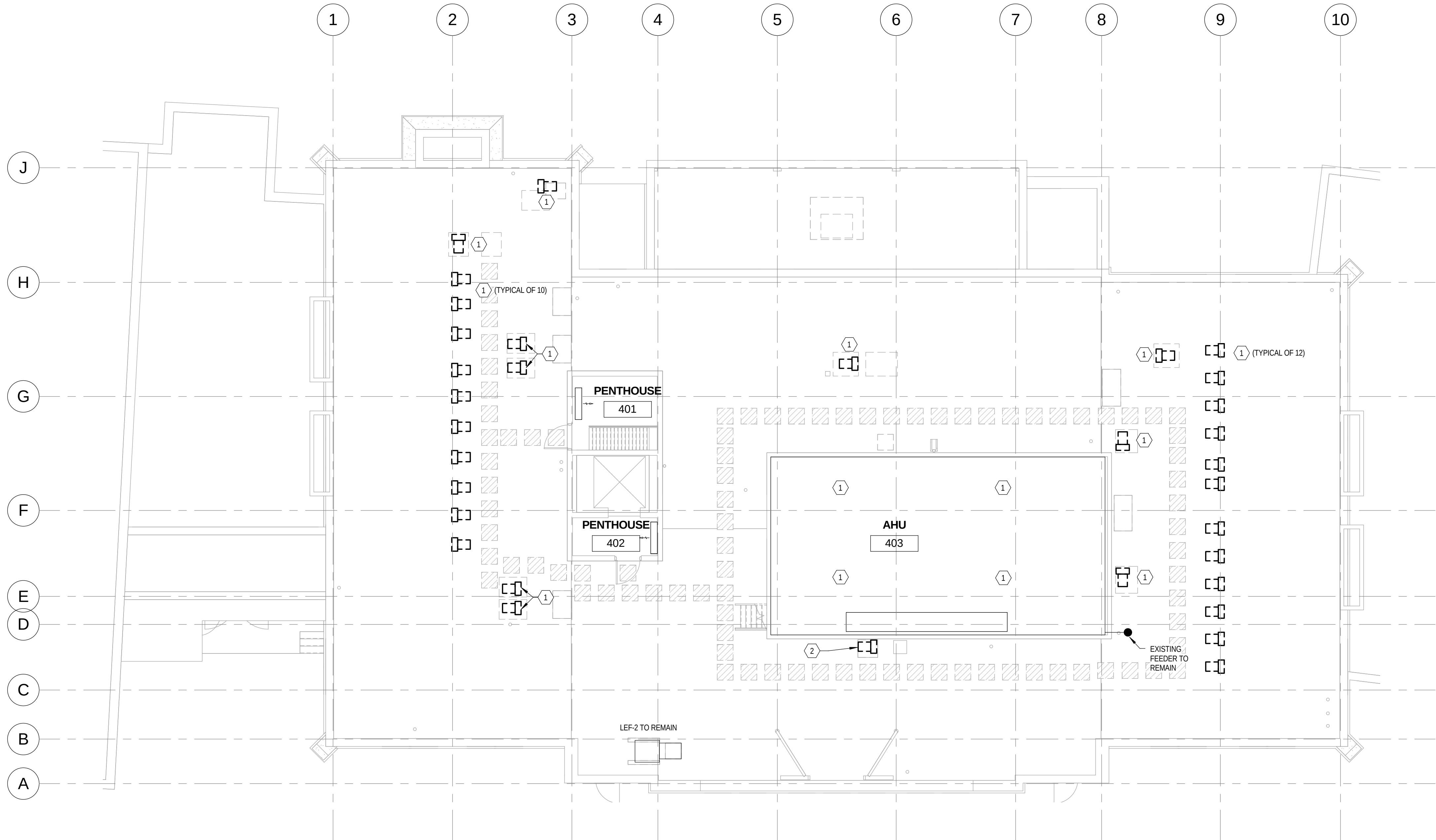
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- S. ELECTRICAL CONTRACTOR TO MAINTAIN ALL WALL AND CEILING FIRE RATINGS WHEN PENETRATING OR REMOVING ITEMS THROUGH SUCH ASSEMBLIES. ELECTRICAL CONTRACTOR TO PATCH, COVER OR REPAIR AS REQUIRED FOR COMPLIANCE.
- T. THIS CONTRACTOR SHALL MAINTAIN THE FUNCTION OF ANY LIFE SAFETY SYSTEM DESIGNATED FOR PARTIAL DEMOLITION UNTIL THE NEW REPLACEMENT SYSTEM IS INSTALLED AND APPROVED FOR USE.
- U. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DEMOLITION PLANS FOR ADDITIONAL DETAILS REGARDING EQUIPMENT TO BE REMOVED. ALL EQUIPMENT WITH ELECTRICAL POWER SHALL HAVE THE ASSOCIATED WIRE AND RACEWAY REMOVED BACK TO THE SOURCE.

DRAWING NOTES:

1. HVAC EQUIPMENT BEING REMOVED BY OTHERS. REMOVE CONDUIT AND WIRE BACK TO PANEL COMPLETE.
2. EXISTING EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT POWER TO EXHAUST FAN PRIOR TO REMOVAL BY OTHERS. RECONNECT NEW EXHAUST FAN. SEE NEW WORK PLAN.



DEMOLITION - ELECTRICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



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Renovation

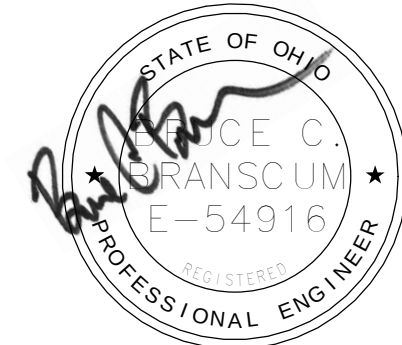
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DWG TITLE
**DEMOLITION
ELECTRICAL
ROOF PLAN**

SHEET NO.
ED104

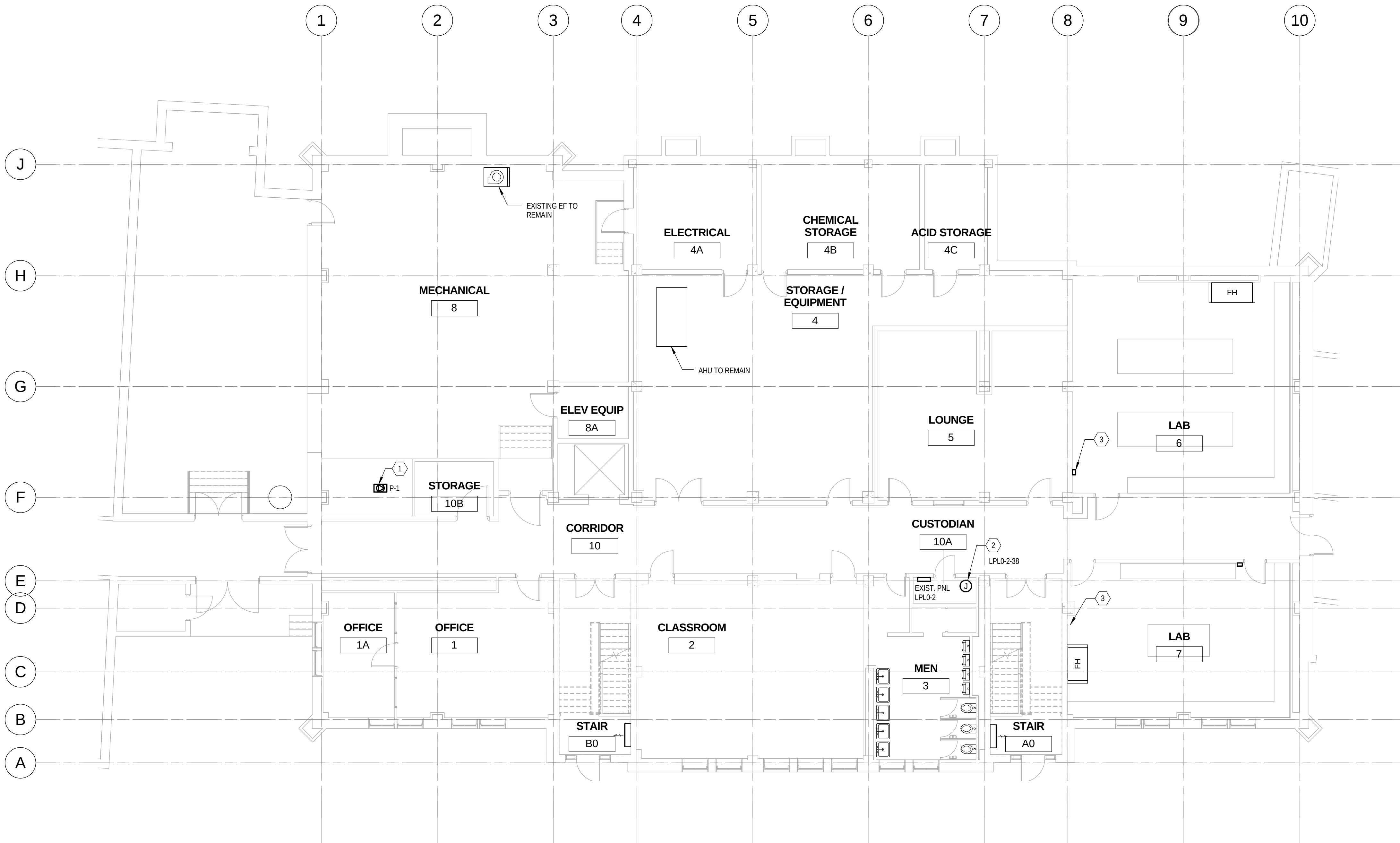
GENERAL NOTES:

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- B. ELECTRIC CONTRACTOR SHALL BE LICENSED AND CERTIFIED IN THE STATE OF OHIO.
- C. THE CONTRACTOR SHALL EXERCISE ADEQUATE PROTECTIVE AND SAFETY MEASURES FOR ALL PERSONS AND PROPERTY AND SHALL BE RESPONSIBLE FOR ANY DAMAGES OR INJURIES ARISING FOR THE EXECUTION OF THIS WORK.
- D. FEEDER CONDUCTORS SHALL BE XHHW-2. BRANCH CONDUCTORS TYPE THHN/THWN. CONDUCTOR SIZE PER NEC REQUIREMENTS WITH CONSIDERATION OF DERATING FACTORS AND VOLTAGE DROP REQUIREMENTS. EC SHALL PROVIDE CALCULATIONS, DERATINGS AND INCREASED CONDUCTOR/RACEWAY SIZES ACCORDINGLY.
- E. ALL CONDUCTORS INCLUDING BRANCH CIRCUIT CONDUCTORS AND CONTROL WIRING SHALL BE INDIVIDUALLY IDENTIFIED AT BOTH ENDS AND AT EACH TERMINATION.
- F. PARALLEL FEEDER CONDUCTORS SHALL BE CUT SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS SHALL BE TORQUE TO IDENTICAL VALUES.
- G. PROVIDE DISCONNECT SWITCH AT ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250-122.
- H. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN COMPLIANCE WITH NEC ARTICLE 250-122.
- I. METAL CONDUITS, WIREWAYS, AND EQUIPMENT ENCLOSURES SHALL NOT BE USED AS EQUIPMENT GROUND CONDUCTORS.
- J. NEC WORKING CLEARANCES SHALL BE PROVIDED FOR ALL NEW ELECTRICAL EQUIPMENT, PANELBOARDS, STARTERS, DISCONNECT SWITCHES ETC. AS REQUIRED BY NEC 110-26. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. EC IS RESPONSIBLE TO LOCATE EQUIPMENT PER NEC REQUIREMENTS.
- K. EC SHALL PROVIDE OUTLET BACK BOXES 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. LIGHTING TOGGLE/MOTION SWITCHES 48" AFF. COORDINATE OUTLET ELEVATIONS OVER COUNTERS WITH ARCHITECT. WHERE SHOWN TOGETHER, TELECOM AND RECEPTACLE OUTLETS SHALL BE GROUPED WITH MOUNTING HEIGHTS MATCHED.

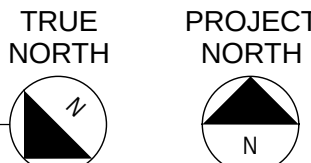
- L. EC RESPONSIBLE FOR APPLYING AND OBTAINING REQUIRED ELECTRICAL PERMITS. ASSOCIATED COSTS TO OBTAIN PERMITS, INSPECTIONS, LICENSING AND SERVICE FEES TO AUTHORITIES HAVING JURISDICTION SHALL BE INCLUDED IN BASE BID.
- M. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS, CONNECTIONS AND LOCATIONS PRIOR TO INSTALLATION. VERIFY ALL PARTS OF THE EQUIPMENT REQUIRING SERVICE ARE READILY ACCESSIBLE. THE CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, INTENDED TO COVER THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EQUIPMENT, DEVICES OR OUTLETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS AND DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- N. UNLESS NOTED OTHERWISE, NEW RECEPTACLES INSTALLED AT 18" AFF.
- O. ALL CONDUIT AND WIRING FROM ANY EMERGENCY PANEL TO ANY DEVICE SHALL BE AN INDEPENDENT CONDUIT SYSTEM PER NEC ARTICLE 700.9(B). BRANCH CIRCUITS SHALL NOT SHARE NEUTRALS. BRANCH CIRCUITS SHALL USE THHN/THWN COPPER AND FEEDERS SHALL USE TYPE XHHN COPPER CONDUCTORS.
- P. EC SHALL COORDINATE FINAL CEILING LAYOUTS AND TYPE WITH ARCHITECTURAL DRAWINGS.
- Q. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE AND IDENTIFY AREAS DEEMED AS PLENUM SPACES. MATERIAL PROVIDED BY AND INSTALLED WITHIN RATED AREAS SHALL BE LISTED.
- R. EC SHALL VALIDATE LUMINAIRE VOLTAGE MATCHES SERVED PANELBOARD AND SPECIFICATIONS PRIOR TO ORDERING AND INSTALLATION.
- S. WHERE WIRING DEVICES OR OTHER OUTLET TYPES REQUIRES SURFACE MOUNTING (SM) WITHIN FINISHED SPACES, EC SHALL PROVIDE SMR WITH COMPATIBLE BACK BOXES. INSTALL VIA SCREWS TO SUBSTRATE. USE WIREMOLD V700 SERIES. CLOSETS, MECHANICAL ELECTRIC ROOMS OR SIMILAR SPACES SHALL USE EMT RACEWAY. EC TO PROVIDE ALL FITTINGS, TRANSITIONS AND ASSEMBLY.
- T. FIRESTOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH-PENETRATION" ASSEMBLIES.
- U. WHERE ELECTRICAL CONTRACTOR TRENCHES EXISTING PLASTER WALLS OR CEILINGS, CONTRACT TO PLAN FOR REPAIRS IN A 3' AREA AROUND TRENCH DURING BIDDING PROCESS.

DRAWING NOTES:

1. MAKE FINAL CONNECTIONS TO NEW PUMP. CONTROLS BY B.M.S. E.C. TO PROVIDE AND INSTALL NEW HAND-OFF-AUTO STARTER. REUSE CIRCUIT MADE SPARE FROM REMOVED BOILER.
2. PROVIDE NEW 20A DEDICATED CIRCUIT FOR B.M.S. COORDINATE EXACT LOCATION WITH CONTRACTOR AND EXISTING CONDITIONS.
3. PROVIDE GAS SHUT OFF SWITCH EQUAL TO ASCO Z16C89 WITH KEY AND PLUNGER. COORDINATE LOCATION WITH EXISTING CONDITIONS. PROVIDE POWER TO LOW VOLTAGE TRANSFORMER AND LOW VOLTAGE WIRING TO 24V SHUT-OFF VALVE ABOVE CEILING. VALVE BY PLUMBING CONTRACTOR. PROVIDE SURFACE RACEWAY WHERE APPLICABLE.



NEW WORK - LOWER LEVEL ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

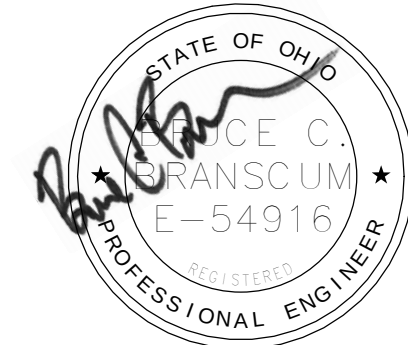
3800 Victory Parkway
Cincinnati, OH 45207

Project #: 16015



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SHEET REVISION		
REV #	DATE	DESCRIPTION

ISSUE		DATE	DESCRIPTION
		03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
NEW WORK
LOWER LEVEL
ELECTRICAL
PLAN

SHEET NO.
E100

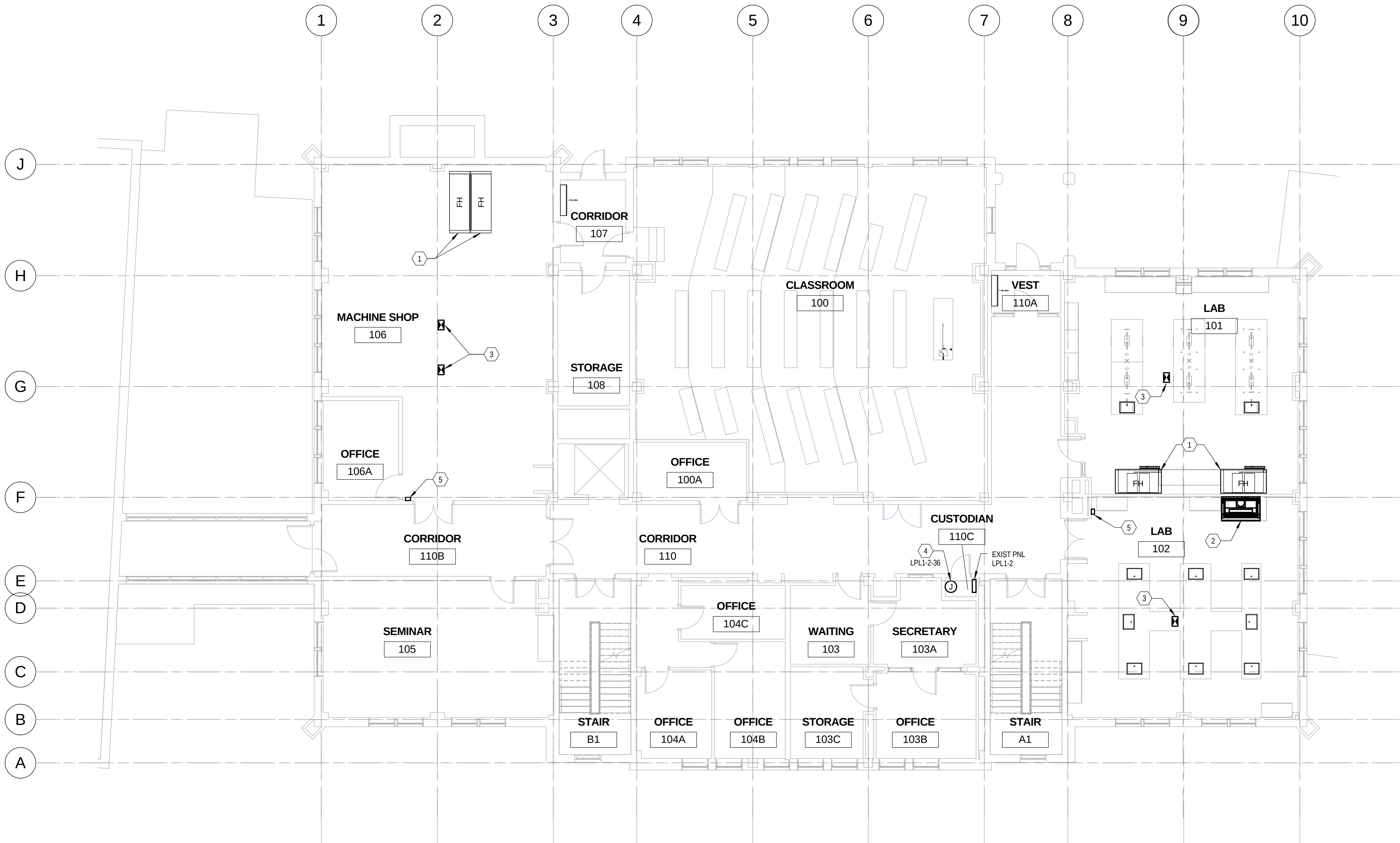
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- B. ELECTRIC CONTRACTOR SHALL BE LICENSED AND CERTIFIED IN THE STATE OF OHIO.
- C. THE CONTRACTOR SHALL EXERCISE ADEQUATE PROTECTIVE AND SAFETY MEASURES FOR ALL PERSONS AND PROPERTY AND SHALL BE RESPONSIBLE FOR ANY DAMAGES OR INJURIES ARISING FOR THE EXECUTION OF THIS WORK.
- D. FEEDER CONDUCTORS SHALL BE XHHW-2, BRANCH CONDUCTORS TYPE THHN/THWN. CONDUCTOR SIZE PER NEC REQUIREMENTS WITH CONSIDERATION OF DERATING FACTORS AND VOLTAGE DROP REQUIREMENTS. EC SHALL PROVIDE CALCULATIONS, DERATINGS AND INCREASED CONDUCTOR/RACEWAY SIZES ACCORDINGLY.
- E. ALL CONDUCTORS INCLUDING BRANCH CIRCUIT CONDUCTORS AND CONTROL WIRING SHALL BE INDIVIDUALLY IDENTIFIED AT BOTH ENDS AND AT EACH TERMINATION.
- F. PARALLEL FEEDER CONDUCTORS SHALL BE CUT SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS SHALL BE TORQUE TO IDENTICAL VALUES.
- G. PROVIDE DISCONNECT SWITCH AT ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH CODE AND MANUFACTURERS' INSTRUCTIONS.
- H. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN COMPLIANCE WITH NEC ARTICLE 250-122.
- I. METAL CONDUITS, WIREWAYS, AND EQUIPMENT ENCLOSURES SHALL NOT BE USED AS EQUIPMENT GROUND CONDUCTORS.
- J. NEC WORKING CLEARANCES SHALL BE PROVIDED FOR ALL NEW ELECTRICAL EQUIPMENT, PANELBOARDS, STARTERS, DISCONNECT SWITCHES ETC. AS REQUIRED BY NEC 110-26. DRAWINGS ARE SCHEMATIC AND DIAGRAMATIC. EC IS RESPONSIBLE TO LOCATE EQUIPMENT PER NEC REQUIREMENTS.
- K. EC SHALL PROVIDE OUTLET BACK BOXES 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. LIGHTING TOGGLE/MOTION SWITCHES 48" AFF. COORDINATE OUTLET ELEVATIONS OVER COUNTERS WITH ARCHITECT. WHERE SHOWN TOGETHER, TELECOM AND RECEPTACLE OUTLETS SHALL BE GROUPED WITH MOUNTING HEIGHTS MATCHED.

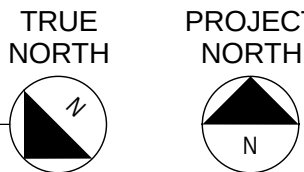
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- U. WHERE ELECTRICAL CONTRACTOR TRENCHES EXISTING PLASTER WALLS OR CEILINGS, CONTRACT TO PLAN FOR REPAIRS IN A 3' AREA AROUND TRENCH DURING BIDDING PROCESS.

DRAWING NOTES:

1. EXISTING TO REMAIN - NO WORK.
2. RECONNECT EXISTING POWER FEED TO NEW HOOD.
3. INTERCEPT SWITCH LEG OF LIGHTING AND PROVIDE AND CEILING MOUNTED OCCUPANCY SENSOR WITH AN AUX CONTACT FOR BMS. SENSOR EQUAL TO HUBBELL NXOS WITH POWER PACK. SET TIME DELAY TO 20 MINUTES. FIELD COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS.
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NEW WORK - FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

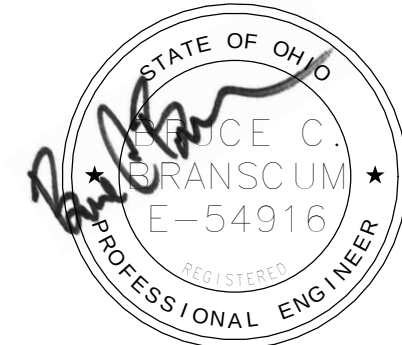
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SHEET REVISION		
REV #	DATE	DESCRIPTION

ISSUE	
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03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
NEW WORK
FIRST FLOOR
ELECTRICAL
PLAN

SHEET NO.
E101

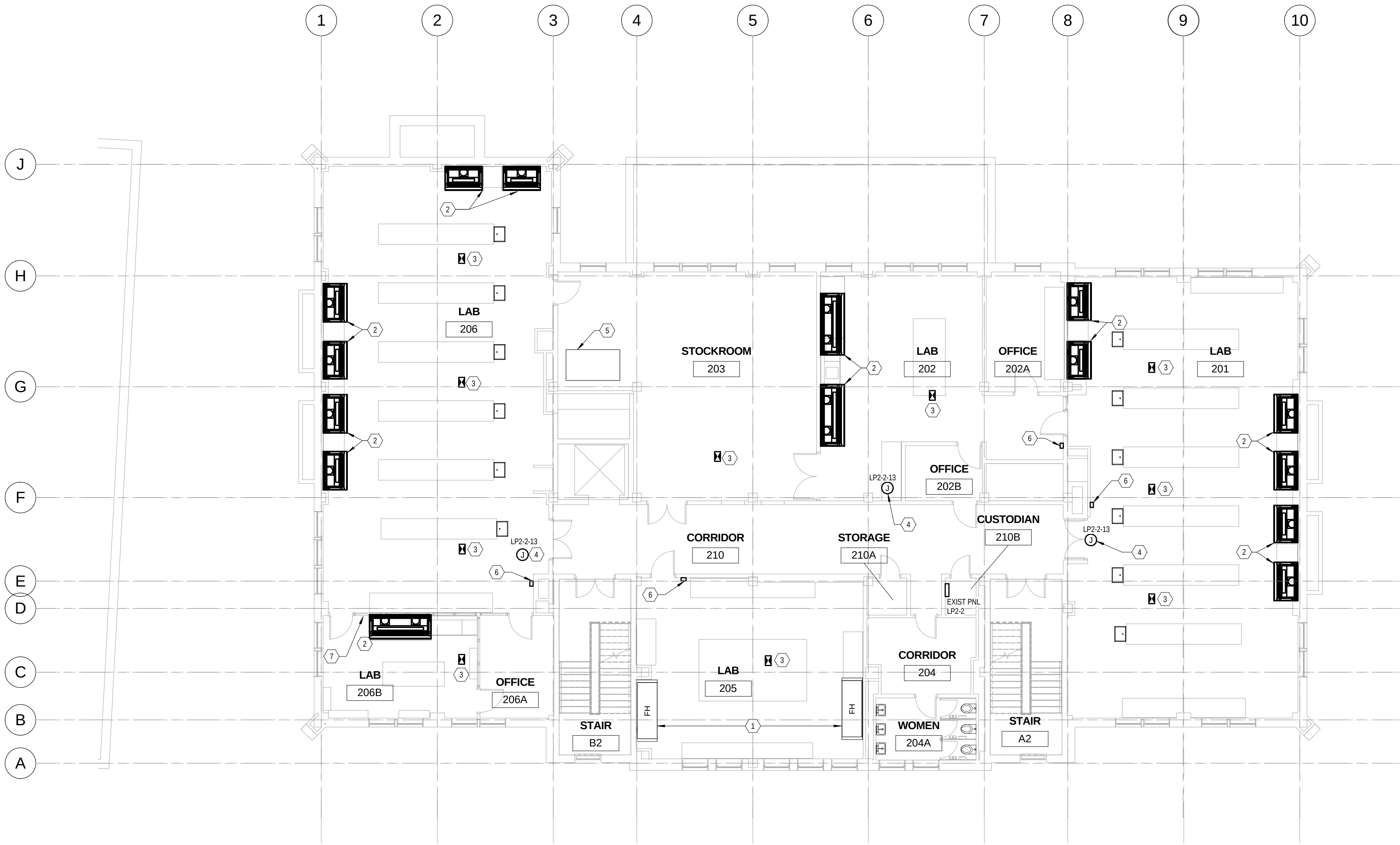
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4. NEW 20A CIRCUIT FOR B.M.S.
5. EXISTING NMR TO REMAIN OPERATIONAL DURING CONSTRUCTION.
6. PROVIDE GAS SHUT OFF SWITCH EQUAL TO ASCO 216C89 WITH KEY AND PLUNGER. COORDINATE LOCATION WITH EXISTING CONDITIONS. PROVIDE POWER TO LOW VOLTAGE TRANSFORMER AND LOW VOLTAGE WIRING TO 24V SHUT-OFF VALVE ABOVE CEILING. VALVE BY PLUMBING CONTRACTOR. PROVIDE SURFACE RACEWAY WHERE APPLICABLE.
7. PROVIDE NEW SWITCH AND SWITCHED RECEPTACLE FOR EXISTING VACUUM PUMP. REUSE EXISTING CIRCUIT.



NEW WORK - SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



Xavier University
Logan Hall
Renovation

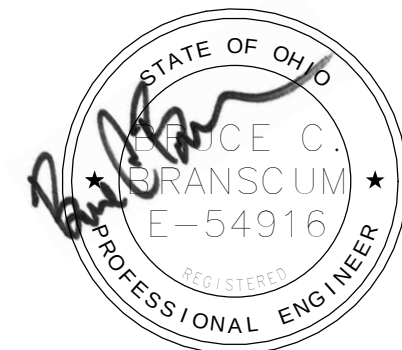
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Project #: 16015



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03/07/2017

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SHEET REVISION		
REV #	DATE	DESCRIPTION

DATE		DESCRIPTION
03/07/2017		BID PACKAGE NO. 3 BIDDING AND PERMIT

**NEW WORK
SECOND FLOOR
ELECTRICAL
PLAN**

E102

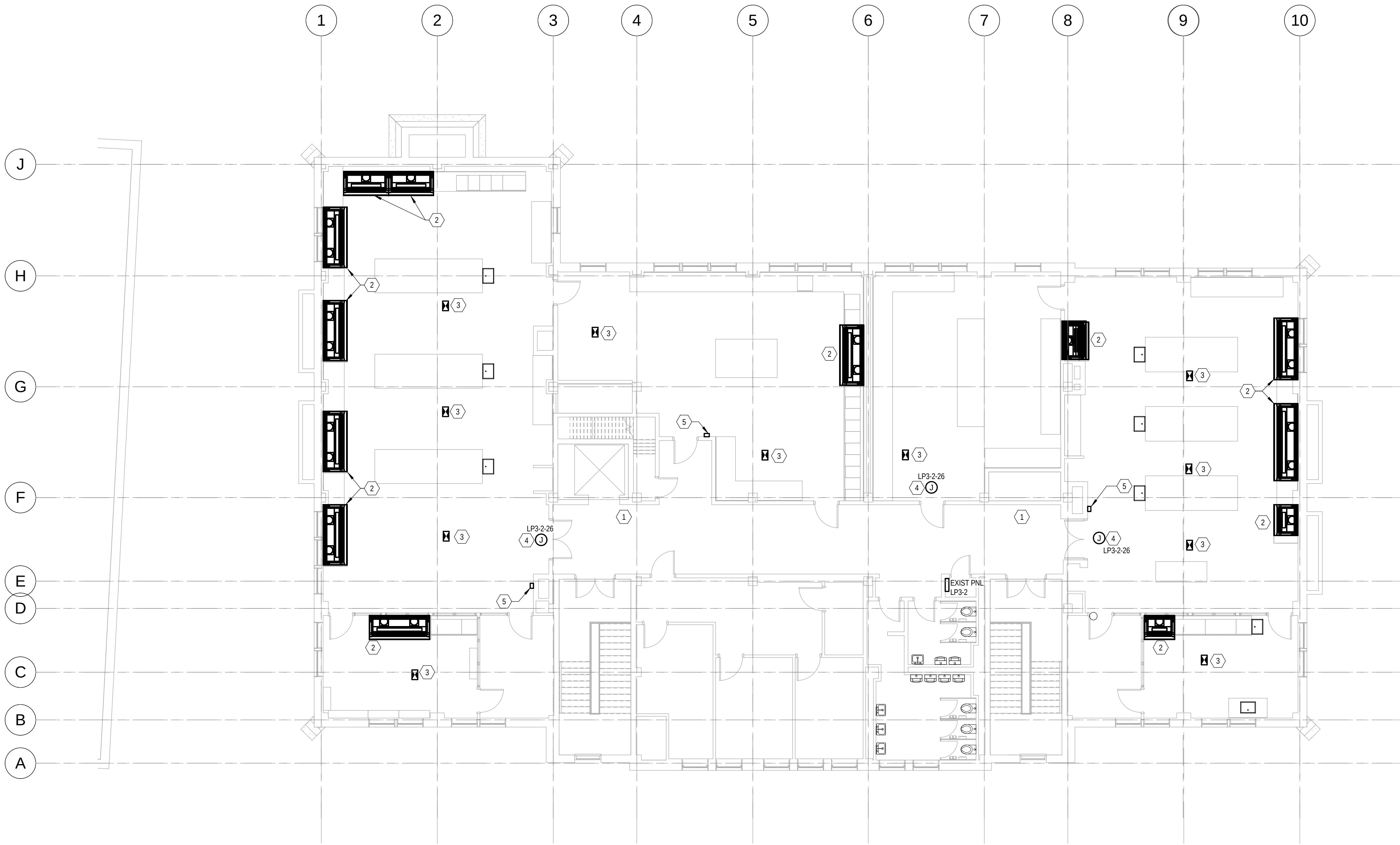
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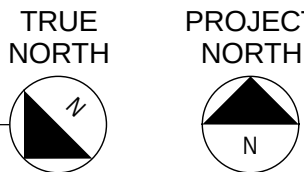
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DRAWING NOTES:

1. REMOVE/REPLACE EXISTING DUCT MOUNTED SMOKE DETECTORS WITH NEW.
2. RECONNECT EXISTING POWER FEED TO NEW HOOD.
3. INTERCEPT SWITCH LEG OF LIGHTING AND PROVIDE CEILING MOUNTED OCCUPANCY SENSOR WITH AN AUX CONTACT FOR BMS. SENSOR EQUAL TO HUBBELL NXOS WITH POWER PACK. SET TIME DELAY TO 20 MINUTES. FIELD COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS.
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NEW WORK - THIRD FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



Xavier University
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Renovation

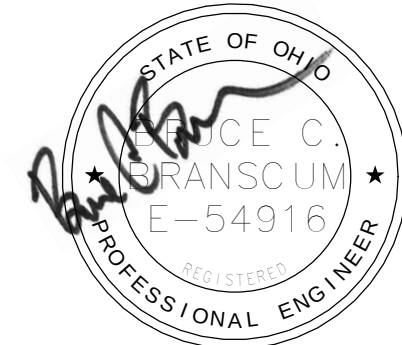
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SHEET REVISION		
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ISSUE		DATE	DESCRIPTION
		03/07/2017	BID PACKAGE NO. 3 BIDDING AND PERMIT

DWG TITLE
**NEW WORK
THIRD FLOOR
ELECTRICAL
PLAN**

SHEET NO.
E103

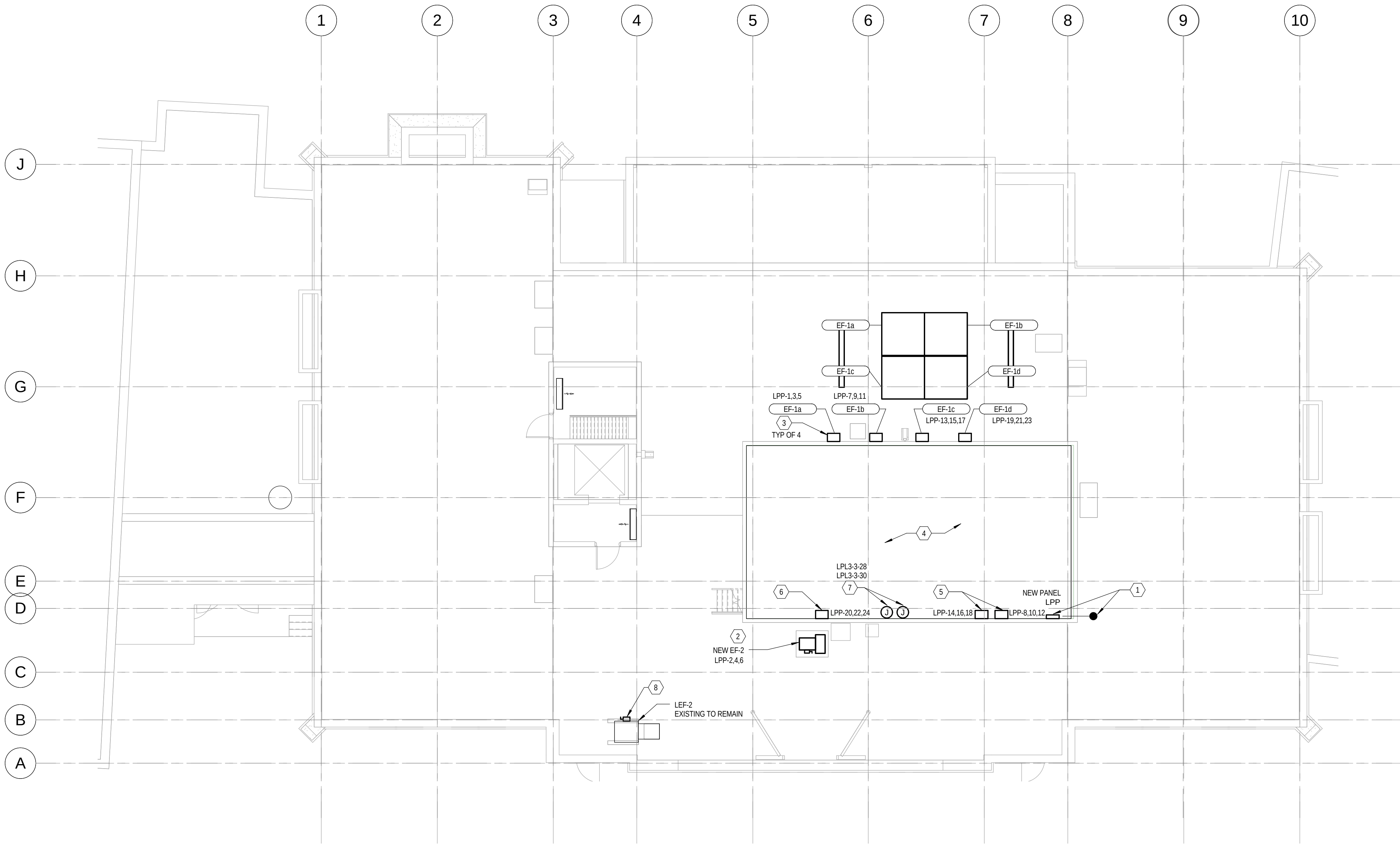
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- G. PROVIDE DISCONNECT SWITCH AT ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH CODE AND MANUFACTURERS' INSTRUCTIONS.
- H. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN COMPLIANCE WITH NEC ARTICLE 250-122.
- I. METAL CONDUITS, WIREWAYS, AND EQUIPMENT ENCLOSURES SHALL NOT BE USED AS EQUIPMENT GROUND CONDUCTORS.
- J. NEC WORKING CLEARANCES SHALL BE PROVIDED FOR ALL NEW ELECTRICAL EQUIPMENT, PANELBOARDS, STARTERS, DISCONNECT SWITCHES ETC. AS REQUIRED BY NEC 110-26. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. EC IS RESPONSIBLE TO LOCATE EQUIPMENT PER NEC REQUIREMENTS.
- K. EC SHALL PROVIDE OUTLET BACK BOXES 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. LIGHTING TOGGLE/MOTION SWITCHES 48" AFF. COORDINATE OUTLET ELEVATIONS OVER COUNTERS WITH ARCHITECT. WHERE SHOWN TOGETHER, TELECOM AND RECEPTACLE OUTLETS SHALL BE GROUPED WITH MOUNTING HEIGHTS MATCHED.

- L. EC RESPONSIBLE FOR APPLYING AND OBTAINING REQUIRED ELECTRICAL PERMITS. ASSOCIATED COSTS TO OBTAIN PERMITS, INSPECTIONS, LICENSING AND SERVICE FEES TO AUTHORITIES HAVING JURISDICTION SHALL BE INCLUDED IN BASE BID.
- M. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS, CONNECTIONS AND LOCATIONS PRIOR TO INSTALLATION. VERIFY ALL PARTS OF THE EQUIPMENT REQUIRING SERVICE ARE READILY ACCESSIBLE. THE CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, INTENDED TO COVER THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EQUIPMENT, DEVICES OR OUTLETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS AND DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- N. UNLESS NOTED OTHERWISE, NEW RECEPTACLES INSTALLED AT 18" AFF.
- O. ALL CONDUIT AND WIRING FROM ANY EMERGENCY PANEL TO ANY DEVICE SHALL BE AN INDEPENDENT CONDUIT SYSTEM PER NEC ARTICLE 700.9(B). BRANCH CIRCUITS SHALL NOT SHARE NEUTRALS. BRANCH CIRCUITS SHALL USE THHN/THWN COPPER AND FEEDERS SHALL USE TYPE XHHN COPPER CONDUCTORS.
- P. EC SHALL COORDINATE FINAL CEILING LAYOUTS AND TYPE WITH ARCHITECTURAL DRAWINGS.
- Q. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE AND IDENTIFY AREAS DEEMED AS PLENUM SPACES. MATERIAL PROVIDED BY AND INSTALLED WITHIN RATED AREAS SHALL BE LISTED.
- R. EC SHALL VALIDATE LUMINAIRE VOLTAGE MATCHES SERVED PANELBOARD AND SPECIFICATIONS PRIOR TO ORDERING AND INSTALLATION.
- S. WHERE WIRING DEVICES OR OTHER OUTLET TYPES REQUIRES SURFACE MOUNTING (SM) WITHIN FINISHED SPACES, EC SHALL PROVIDE SMR WITH COMPATIBLE BACK BOXES. INSTALL VIA SCREWS TO SUBSTRATE. USE WIREMOLD V700 SERIES. CLOSETS, MECHANICAL ELECTRIC ROOMS OR SIMILAR SPACES SHALL USE EMT RACEWAY. EC TO PROVIDE ALL FITTINGS, TRANSITIONS AND ASSEMBLY.
- T. FIRESTOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATIONS OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH-PENETRATION" ASSEMBLIES.
- U. WHERE ELECTRICAL CONTRACTOR TRENCHES EXISTING PLASTER WALLS OR CEILINGS, CONTRACT TO PLAN FOR REPAIRS IN A 3' AREA AROUND TRENCH DURING BIDDING PROCESS.

DRAWING NOTES:

1. EXISTING FEED TO BE REUSED TO FEED NEW PANEL LPP, EXTEND CONDUIT AND WIRE AS NEEDED.
2. CONNECT NEW, OWNER PROVIDED, EF-2 USING CONDUIT AND WIRE SAVED DURING DEMO, EXTEND CONDUIT AND WIRE AS NEEDED. COORDINATE WITH HVAC CONTRACTOR. DISCONNECT TO BE NEMA-3R.
3. VFD FURNISHED BY MECHANICAL CONTRACTOR WIRED BY E.C. COORDINATE EXACT LOCATION WITH HVAC.
4. CONNECT NEW, OWNER PROVIDED, AHU COMPONENTS. COORDINATE INSTALLATION WITH HVAC CONTRACTOR.
5. VFD FOR AHU SA FURNISHED BY MECHANICAL CONTRACTOR WIRED BY E.C.
6. VFD FOR AHU RA FURNISHED BY MECHANICAL CONTRACTOR WIRED BY E.C..
7. PROVIDE (2) 20 AMP CIRCUITS FOR LIGHTING AND CONTROLS.
8. PROVIDE NEW COMBINATION STARTER/DISCONNECT.



NEW WORK - ELECTRICAL ROOF PLAN

SCALE: 1/8" = 1'-0"



Xavier University
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Renovation

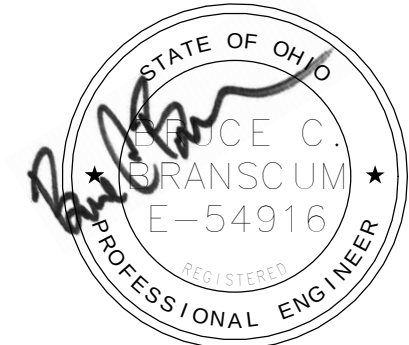
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DWG TITLE
NEW WORK
ELECTRICAL
ROOF PLAN

SHEET NO.
E104

ELECTRICAL LEGEND (not all may apply)

GENERAL ABBREVIATIONS

AAD	AUTOMATIC DAMPER	IN	INCH
AAV	AUTOMATIC AIR VENT	INV	INVERT
AB	ABOVE COUNTER	KEC	KITCHEN EQUIPMENT CONTRACTOR
AC	ALTERNATING CURRENT	KH	KITCHEN HOOD
AC+	AIR CONDITIONING UNIT	KV	KITCHEN VENT
AD	ACCESS DOOR	KVA	KILO-VOLT AMPERES
ADDL	ADDITIONAL	KW	KILOWATT
ADJ	ADJUSTABLE	KWH	KILOWATT HOURS
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERES
ALT	ALTERNATE	MAX	MAXIMUM
ALUM	ALUMINUM	MC	MECHANICAL CONTRACTOR
AMP	AMPERE	MECH	MECHANICAL
AP	ACCESS PANEL	MFG/MFR	MANUFACTURER
APPROX	APPROXIMATE	MH	MANHOLE
ARCH	ARCHITECT(URAL)	MIN	MINIMUM
AUTO	AUTOMATIC	MISC	MISCELLANEOUS
AVG	AVERAGE	NA	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NC	NORMALLY CLOSED/NOISE CRITERIA
BE	BOTTOM ELEVATION	NO	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	NO	NORMALLY OPEN
BHP	BRAKE HORSEPOWER	NOM	NOMINAL
BLDG	BUILDING	NTS	NOT TO SCALE
BLR	BOLTER	OC	ON CENTER
BOT	BOTTOM	OCC	OCCUPANCY SENSOR
BP	BOOSTER PUMP	OPG	OPENING
CA	COMPRESSED AIR	PC	PLUMBING CONTRACTOR
CAF	COMBUSTION AIR FAN	PERIM	PERIMETER
CCW	COUNTER CLOCKWISE	PH	PHASE
CH	CHILLER	PHWP	PRIMARY HOT WATER PUMP
CHWP	CHILLED WATER PUMP	PLBS	PLUMBING
COL	COLUMN	PSI	POUND PER SQUARE INCH
CONN	CONNECTION	PVC	POLYVINYL CHLORIDE
CU	CONDENSING UNIT	RP	RECIRCULATION PUMP
CUH	CABINET UNIT HEATER	REF	REFERENCE
CW	CLOCKWISE	REQ'D	REQUIRED
CWP	CONDENSING WATER PUMP	REV	REVISED(D) (ION)
DC	DIRECT CURRENT	RM	ROOM
DDC	DIRECT DIGITAL CONTROL	RPM	REVOLUTIONS PER MINUTE
DET	DETAIL	SCHED	SCHEDULE
DF	DRINKING FOUNTAIN	SECT	SECTION
DIA	DIAMETER	SHWP	SHEET
DN	DOWN	SHT	SHEET
DWG	DRAWING	SM	SURFACE MOUNT
EA	EACH	SMR	SURFACE MOUNT RACEWAY
EAH	EXHAUST AIR HOOD	SP	SUMP PUMP
EC	ELECTRICAL CONTRACTOR	SPEC	SPECIFICATIONS
ELEC	ELEVATION	SQ	SQUARE
ELEC	ELECTRIC/ELECTRICAL	SQ FT/FS	SQUARE FOOT (FEET)
EQ	EQUAL	SQ IN	SQUARE INCHES
EQUIP	EQUIPMENT	SS	STAINLESS STEEL
EQUIV	EQUIVALENT	STD	STANDARD
EW	ELECTRIC WATER COOLER	STL	STEEL
EXCL	EXCLUDING	STRUCT	STRUCTURAL
EXIST	EXISTING	TCC	TEMPERATURE CONTROL CONTRACTOR
EXP	EXPANSION	TCV	TEMPERATURE CONTROL VALVE
FA	FLASH ARRESTOR	TS	TAMPER SWITCH
FIN-FL	FINISHED FLOOR	TSTAT	THERMOSTAT
FL	FLOOR	TYP	TYPICAL
PPC	FIRE PROTECTION CONTRACTOR	UG LUG	UNDERGROUND
PPAV	FAN POWERED VAV	UH	UNIT HEATER
FS	FLOW SWITCH	UION	UNLESS OTHERWISE NOTED
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
GFP	GROUND FAULT PROTECTED - GFCI BREAKER	VAC	VACUUM
GND	GROUND	VERT	VERTICAL
HORIZ	HORIZONTAL	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	WI	WITH
HR	HOUR	WIO	WITHOUT
HT	HEAT TRACE	WMO	WASH-MACHINE OUTLET
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WP	WEATHER PROOF
HK	HEAT EXCHANGER	XP	EXPLOSION PROOF
IE	INVERT ELEVATION		

ELECTRICAL SYMBOLS

** = COORDINATE FINAL BACKBOX AND RACEWAY REQUIREMENTS WITH TECHNOLOGY SHEETS

	AB WP TR		COMBO STARTER/DISCONNECT		LOW VOLTAGE SWITCH
	GFCI		MANUAL STARTER		PUSH BUTTON MASTER CONTROL SWITCH
	ISO		MAGNETIC STARTER/DISCONNECT SWITCH COMBO		KEY OPERATED SWITCH
	DED		JUNCTION BOX		DIMMER SWITCH
	GFCI		METER		BOLLARD - ROUND
	ISO		STATIC GROUND		BOLLARD - SQUARE
	DED		EMERGENCY PUSH BUTTON		WALL MOUNTED CLOCK
	CLNG		2-POSITION SELECTOR SWITCH		WALL MOUNTED SPEAKER
	CLNG		POWER CONNECTION - HEAT TRACE		WALL MOUNTED THERMOSTAT
	AV		ELECTRIC PANEL - PANEL NUMBER M		CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER
	1G		CIRCUIT NUMBER 1 TO PANEL NUMBER M		CEILING MOUNTED PA SPEAKER
	2G		CIRCUIT NUMBER 3 FROM LPM CONTROLLED THROUGH SWITCH #		DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS.
	3G		SURFACE MOUNTED PANELBOARD		CCTV CAMERA
	M		FLUSH MOUNTED PANELBOARD		SECURITY SYSTEM MOTION DETECTOR
	CR		CONDUIT STUBBED UP		WIRELESS ACCESS POINT
	KP		CONDUIT STUBBED DOWN		EXTERIOR SCONCE
	PB		2x4 LIGHT		EXTERIOR FLOOD LIGHT
	SB		2x4 NITE CIRCUIT LIGHT		EXTERIOR WALLPACK LIGHT
	DM		2x2 LIGHT		EXTERIOR DOOR LIGHT
	WM		2x2 NITE CIRCUIT LIGHT		POLE W1 SQUARE LIGHT
	VC		4' INDUSTRIAL STRIP LIGHT		POLE W2 SQUARE LIGHT
	DC		8' INDUSTRIAL STRIP LIGHT		POLE W3 SQUARE LIGHT
	DS		STAR LIGHT		POLE W4 SQUARE LIGHT
	DO		WALL MOUNTED SCONCE		BREAKER - SLD
	2,3,4		CAN LIGHT		FUSE W/ DISCONNECT SWITCH - SLD
	PIL		NITE CAN LIGHT		TRANSFORMER - SLD
			4' UNDER COUNTER LIGHT		TRANSFORMER - SLD
			2' STRIP LIGHT		NOTE: SEE TECHNOLOGY DRAWING T001 FOR ADDITIONAL TECHNOLOGY SPECIFIC SYMBOLS AND LEGENDS.
			4' STRIP LIGHT		NEW WORK
			8' STRIP LIGHT		EXISTING WORK TO REMAIN
			EXIT LIGHT W/NUMBER OF FACES INDICATED		EXISTING WORK TO BE REMOVED
			EXIT LIGHT W/DIRECTIONAL ARROWS		
			EMERGENCY LIGHT		
			EXIT/EMERG COMBINATION		
			EXIT/EMERG WITH REMOTE HEAD		
			SWITCH (2-2 POLE, 3-3 WAY, 4-4 WAY)		
			SWITCH (PIL-W/PILOT LIGHT)		

OCCUPANCY SENSORS

	X = $\begin{cases} P = \text{PASSIVE INFRARED OCCUPANCY SENSOR} \\ U = \text{ULTRASONIC OCCUPANCY SENSOR} \\ D = \text{DUAL TECHNOLOGY OCCUPANCY SENSOR: PASSIVE INFRARED \& ULTRASONIC} \end{cases}$
	X = $\begin{cases} P = \text{PASSIVE INFRARED OCCUPANCY SENSOR (NO CODE LETTER)} \\ U = \text{ULTRASONIC OCCUPANCY SENSOR} \\ D = \text{DUAL TECHNOLOGY OCCUPANCY SENSOR: PASSIVE INFRARED \& ULTRASONIC} \end{cases}$
	WALL/CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR

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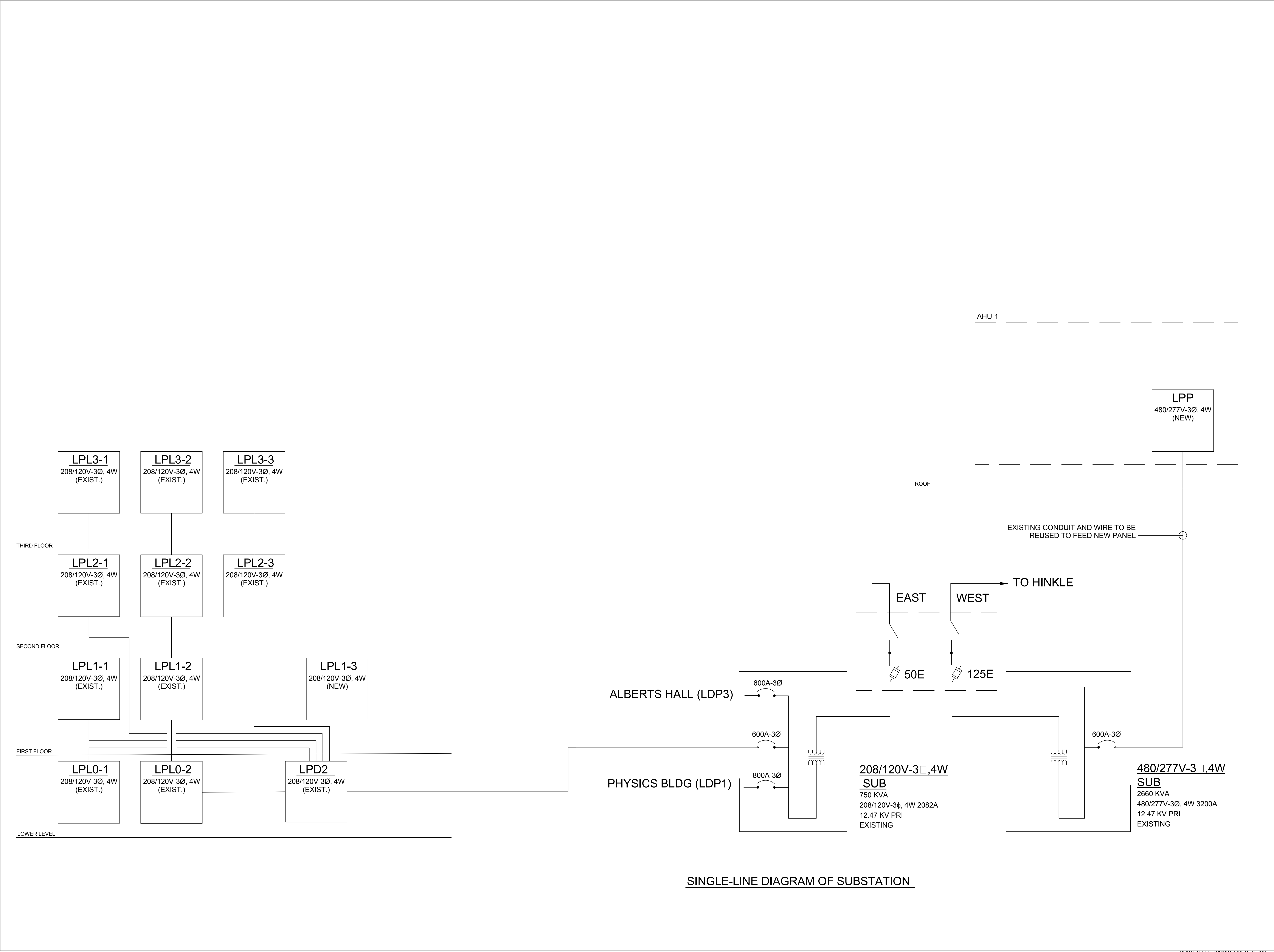
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ELECTRICAL
DETAILS

E200



SINGLE-LINE DIAGRAM OF SUBSTATION

Xavier University
Logan Hall
Renovation

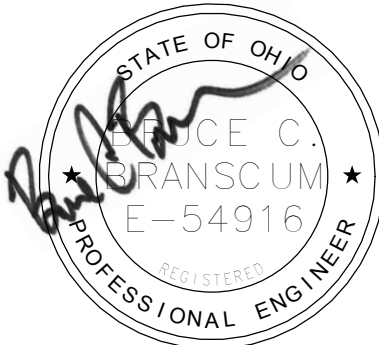
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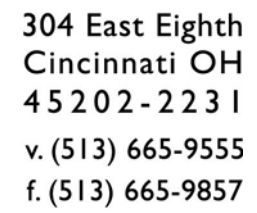
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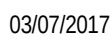
DWG TITLE
**ELECTRICAL
SINGLE LINE
DIAGRAM**

SHEET NO.
E400

Project #: 16015



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REVISIONESSUE

E401

N = NEW BREAKER

MAIN TYPE: MLO

MAIN TYPE: MLO

MAIN TYPE: MLO

NOTE:
SOME PANELS FOR REFERENCE ONLY.

PANEL: LPL2-2										208/120V, 3PH, 4W											
LOCATION: SECOND FLOOR										MAIN SIZE: 225A											
MOUNTING: SURFACE MOUNT										MAIN TYPE: MLO											
NOTES:																					
KVA																					
1	EXIT & NGT LIGHTS		20	0.80	A	0.60	20			213, 214 LIGHTS		2									
3	209 LIGHTS 212, 216		20	0.80	B	0.60	20			211 LIGHTS		4									
5	209, 212, 216, 215, 210		20	0.80	C	0.60	20			205 LIGHTS		6									
7	205		20	0.80	A	0.60	20			213, 214, 211		8									
9	HALON RM 205 BLDG CIRCUIT DOOR RECEPT		20	0.80	B	0.60	20			213, 214, 211		10									
11	HFC 125 EXTING PANEL		20	0.80	A	0.60	20			SIEMNES		12									
13	BMS CIRCUIT		20	0.18	C	0.60	20			SPACE		14									
15	WATER COOLER		20	0.80	B	0.60	20			3RD FLOOR RM 303 RECP		16									
17	SPARE		20	0.80	C	0.60	20			3RD FLOOR RM 303 EQUIP		18									
19	CASE WORK RECP, RM 205 ICE MACHINE, RM 205 FRIG		20	0.80	A	0.00				BLANK		20									
			0.80	B	0.60	20			RM 205 COUNTER TOP RECEPT		22										
21				0.80	C	0.00				SPACE		24									
25	COUNTER TOP RECP RM 205, FUME HOOD RM 205 SOUTH, COUNTER TOP RECP OUTSIDE WALL		20	0.80	A	0.60	20			ROOF TOP EF FAN, RM 205 FUME HOODS		26									
27				0.80	B	0.60			28												
29				0.80	C	0.60			30												
31	SPACE			0.00	A	0.00				SPACE		32									
33	SPACE			0.00	B	0.00				SPACE		34									
35	SPACE			0.00	C	0.00				SPACE		36									
37	SPACE			0.00	A	0.00				SPACE		38									
39	SPACE			0.00	B	0.00				SPACE		40									
41	SPACE			0.00	C	0.00				SPACE		42									
AMPS PER PHASE:										48.2	58.33	53.33									
LOAD TYPE										CONNECTED KVA			DEMAND KVA								
LIGHT @ 125%										0.0			0.0								
RECP, (100% 1st 10KVA + 50% REMAINING)										0.2			0.2								
MOTOR (100% + 25% OF LARGEST)										0.0			0.0								
EQUIPMENT NON-CONTINUOUS (100%)										##			38.8								
EQUIPMENT CONTINUOUS (125%)										0.0			0.0								
HEAT (100%)										0.0			0.0								
KITCHEN										0.0			0.0								
TOTAL KVA										##			39.0								
TOTAL AMPS										##			108.2								

PANEL: LPL3-2										208/120V, 3PH, 4W									
LOCATION: THIRD FLOOR										MAIN SIZE: 225A									
MOUNTING: SURFACE MOUNT										MAIN TYPE: MLO									
NOTES:																			
N = NEW BREAKER																			
										KVA									
1	EXIT & NIGHT LIGHTS			20	0.60	A	0.50	20		309 LIGHTS		2							
3	303 LIGHT			20	0.60	B	0.50	20		318, 317, 316, 315, 314		4							
5	303 LIGHT			20	0.60	C	0.50	20		312, 311		6							
7	302 LIGHT			20	0.60	A	0.50	20		311, 312, 313, 314, 310		8							
9	302			20	0.60	B	0.50	20		311, 312, 313, 314, 310		10							
11	302			20	0.60	C	0.50	20		311, 312, 313, 314, 310		12							
13	302 LAB BENCH			20	0.60	A	0.50	20		309, 315, 310, 319		14							
15	302 LAB BENCH			20	0.60	B	0.50	20		303 COMPUTERS		16							
17	302			20	0.60	C	0.50	20		303 COMPUTERS		18							
19	302			20	0.60	A	0.50	20		303		20							
21	303			20	0.60	B	0.50	20		303		22							
23	303			20	0.60	C	0.50	30		303 EQUIPMENT		24							
25	TCP ROOF			20	0.60	A	0.18	20	N		BMS CIRCUIT	26							
27	GMT LTS. & ROOF			20	0.60	B	0.50	20		TCP (ROOF)		28							
29	PANEL REC			20	0.60	C	0.50	20		WATER COOLER		30							
AMPS PER PHASE:										68.2	70.83	70.83							
LOAD TYPE										CONNECTED KVA		DEMAND KVA							
LIGHT @ 125%										0.0		0.0							
RECEPT (100% 1st 10KVA + 50% REMAINING)										0.2		0.2							
MOTOR (100% + 25% OF LARGEST)										0.0		0.0							
EQUIPMENT NON-CONTINUOUS (100%)										###		19.6							
EQUIPMENT CONTINUOUS (125%)										0.0		0.0							
HEAT (100%)										0.0		0.0							
KITCHEN										0.0		0.0							
TOTAL KVA										###		19.8							
TOTAL AMPS										###		54.9							

PANEL: LPL1-3										208/120V, 3PH, 4W											
LOCATION: ROOM 101										MAIN SIZE: 100A											
MOUNTING: SURFACE MOUNT										MAIN TYPE: MLO											
NOTES:																					
FURISH AND INSTALL																					
PANELBOARD CONSTRUCTION																					
10,000 AIC										KVA											
1	TABLE RCPT			20/1	0.75	A	0.90	20/1		INCUBATOR				2							
3	TABLE RCPT			20/1	0.75	B	0.42	20/1		LIGHTS				4							
5	TABLE RCPT			20/1	0.75	C	0.36	20/1		BACK TABLE RCPTS				6							
7	TABLE RCPT			20/1	0.75	A	0.36	20/1		BACK TABLE RCPTS				8							
9	TABLE RCPT			20/1	0.75	B	0.72	20/1		TABLE RCPTS				10							
11	TABLE RCPT			20/1	0.75	C	0.00	20/1		PROJECTOR				12							
13	TABLE RCPT			20/1	0.75	A	0.18	20/1		INSTRUCTOR RCPT				14							
15	TABLE RCPT			20/1	0.75	B	0.25	20/1		GAS SOLENOID/SHOWER POWER				16							
17	TABLE RCPT			20/1	0.75	C	0.12	20/1		FUME HOODS				18							
19	TABLE RCPT			20/1	0.75	A	1.00	20/1		SPARE				20							
21	TABLE RCPT			20/1	0.75	B	0.15	20/1		PROJECTOR SCREEN				22							
23	TABLE RCPT			20/1	0.75	C	0.20	20/1		SPARE				24							
25	FRIDGE			20/1	1.00	A	0.83	20/1		EF-101				26							
27	FRIDGE			20/1	1.00	B	0.00	20/1		SPARE				28							
29	SPARE			20/1	0.54	C	0.00	20/1		SPARE				30							
31	SPARE			20/1	0.00	A	0.00	20/1		SPARE				32							
33	SPARE			20/1	0.00	B	0.00	20/1		SPARE				34							
35	BLANK				0.00	C	0.00			BLANK				36							
37	BLANK				0.00	A	0.00			BLANK				38							
39	BLANK				0.00		0.00			BLANK				40							
41	BLANK				0.00	C	0.00			BLANK				42							
AMPS PER PHASE:				60.6			46.17			35.17											
LOAD TYPE				CONNECTED KVA				DEMAND KVA													
LIGHT @ 125%				0.4				0.5													
RCPT, (100% 1st 10KVA + 50% REMAINING)				14.3				12.2													
MOTOR (100% + 25% OF LARGEST)				0.8				0.8													
EQUIPMENT NON-CONTINUOUS, (100%)				1.3				1.3													
EQUIPMENT CONTINUOUS, (125%)				0.0				0.0													
HEAT (100%)				0.2				0.2													
KITCHEN				0.0				0.0													
TOTAL KVA				17.0				15.0													
TOTAL AMPS				47.3				41.6													
* = GFCI BREAKER																					

PANEL: LPD2										208/120V, 3PH, 4W											
LOCATION: LOWER LEVEL										MAIN SIZE: 600A											
MOUNTING: SURFACE MOUNT										MAIN TYPE: MCB											
NOTES:																					
1	LPL2-2, LPL3-3		225/3	KVA		225/3	KVA		LPL0-2, LPL1-2, LPL2-2, LPL3-2		2										
3				5.50	A	94.02	5.50	B			94.02	4									
5				5.50	C	94.02	5.50	C			94.02	6									
7	LPL1-1, PHYSICS SHOP		225/3	6.80	A	6.20	225/3	6.80	A	6.20	8										
9				6.80	B	6.20		6.80	B	6.20	10										
11				6.80	C	6.20		6.80	C	6.20	12										
13	LPL0-1		100/3	28.78	A	4.80	150/3	28.78	A	4.80	14										
15				28.78	B	4.80		28.78	B	4.80	16										
17				28.78	C	4.80		28.78	C	4.80	18										
19	SPACE		20	0.00	A	5.68	100/3	0.00	A	5.68	20										
21	SPACE		20	0.00	B	5.68		0.00	B	5.68	22										
23	SPACE		20	0.00	C	5.68		0.00	C	5.68	24										
25	SPACE		20	0.00	A	0.00		0.00	A	0.00	26										
27	SPACE		20	0.00	B	0.00		0.00	B	0.00	28										
29	SPACE		20	0.00	C	0.00		0.00	C	0.00	30										
AMPS PER PHASE:				1,264.8	#####	#####															
LOAD TYPE				CONNECTED KVA				DEMAND KVA													
LIGHT @ 125%				0.4				0.5													
RECPT. (100% 1st 10KVA + 50% REMAINING)				16.3				13.1													
MOTOR (100% + 25% OF LARGEST)				0.8				0.8													
EQUIPMENT NON-CONTINUOUS (100%)				437.6				437.6													
EQUIPMENT CONTINUOUS (125%)				0.0				0.0													
HEAT (100%)				0.2				0.2													
KITCHEN				0.0				0.0													
TOTAL KVA				455.3				452.3													
TOTAL AMPS				1264.8				1256.4													

PANEL: SUB										480/277V, 3PH, 4W																			
LOCATION:										MAIN SIZE: 3,000A																			
MOUNTING: SURFACE MOUNT										MAIN TYPE: MLO																			
NOTES:																													
										KVA																			
1	EXISTING LOAD		225	21.00	A	19.50	225	EXISTING LOAD		2																			
3				21.00	B	19.50				4																			
5				21.00	C	19.50				6																			
7	EXISTING LOAD		225	18.00	A	76.43	600	PANEL LPP		8																			
9				18.00	B	76.43				10																			
11				18.00	C	76.43				12																			
13				0.00	A	32.50	600	MCC PHYSICS (EXISTING)		14																			
15				0.00	B	32.50				16																			
17				0.00	C	32.50				18																			
19				0.00	A	0.00				20																			
21				0.00	B	0.00				22																			
23				0.00	C	0.00				24																			
25				0.00	A	0.00				26																			
27				0.00	B	0.00				28																			
29				0.00	C	0.00				30																			
AMPS PER PHASE:										604.5	604.45	604.45																	
LOAD TYPE										CONNECTED KVA										DEMAND KVA									
LIGHT @ 125%										0.0										0.0									
RECPT. (100% 1st 10KVA + 50% REMAINING)										0.4										0.4									
MOTOR (100% + 25% OF LARGEST)										0.0										0.0									
EQUIPMENT NON-CONTINUOUS (100%)										540.9										540.9									
EQUIPMENT CONTINUOUS (125%)										0.0										0.0									
HEAT (100%)										0.0										0.0									
KITCHEN										0.0										0.0									
TOTAL KVA										541.3										541.3									
TOTAL AMPS										651.3										651.3									

NOTE:
SOME PANELS FOR REFERENCE ONLY.

PANEL: LPP (NEW)										480/277V, 3PH, 4W												
LOCATION: AHU-1										MAIN SIZE: 600A												
MOUNTING: SURFACE MOUNT										MAIN TYPE: MLO												
NOTES:																						
KVA																						
1	EF-1a	40	5.82	A	0.30	20			EF-2													2
3			5.82	B	0.30																	4
5			5.82	C	0.30																	6
7	EF-1b	40	5.82	A	18.00				AHU													8
9			5.82	B	18.00																	10
11			5.82	C	18.00																	12
13	EF-1c	40	5.82	A	18.00				AHU													14
15			5.82	B	18.00																	16
17			5.82	C	18.00																	18
19	EF-1d	40	5.82	A	3.88				AHU													20
21			5.82	B	3.88																	22
23			5.82	C	3.88																	24
25			0.00	A	0.00																	26
27			0.00	B	0.00																	28
29			0.00	C	0.00																	30
AMPS PER PHASE:			229.0	229.05	229.05																	
LOAD TYPE			CONNECTED KVA			DEMAND KVA																
LIGHT @ 125%			0.0			0.0																
RECPT. (100% 1st 10KVA + 50% REMAINING)			0.2			0.2																
MOTOR (100% + 25% OF LARGEST)			0.0			0.0																
EQUIPMENT NON-CONTINUOUS (100%)			229.1			229.1																
EQUIPMENT CONTINUOUS (125%)			0.0			0.0																
HEAT (100%)			0.0			0.0																
KITCHEN			0.0			0.0																
TOTAL KVA			229.3			229.3																
TOTAL AMPS			275.9			275.9																